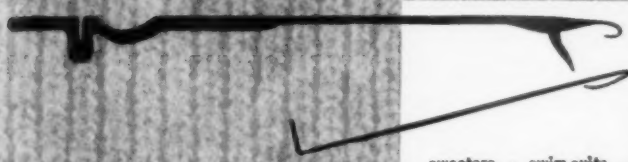


ABSTRACTED

Knitted Outerwear Times



the official publication of the
national knitted outerwear association DEC 11 1961
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sweaters • swim suits • infantswear • knit fabrics • polo shirts • gloves • headwear

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Vol. 30 MONDAY, NOVEMBER 20, 1961 No. 48



Korzenik Named To U. S. Committee As Knitted Outerwear Representative

SIDNEY S. KORZENIK, executive director and counsel of the National Knitted Outerwear Association, has been named by Secretary of Commerce Luther H. Hodges to represent the knitted outerwear industry on the Wool Textile Advisory Committee, it was announced this week. The advisory group on wool manufactures will assist the President's Cabinet Textile Advisory Committee, of which Secretary Hodges is chairman. The newly appointed group will hold its first meeting in Washington on November 27th.

Up to now, virtually all of the efforts made to alleviate the problem of textile imports have been confined to the field of cotton goods. James F. Nields, association president, has been serving on the Cotton Textile Advisory Committee. The provisional agreement developed in Geneva last July, like the extension agreement on textiles negotiated with Japan in August and September, was addressed to trade in cotton textiles and apparel. The former contemplates possible application to other fibers only where it appears that the restraints imposed on cotton imports in any category have been circumvented by use of substitute competitive fibers. But the categories which both the GATT Agreement and the Japanese arrangement include were based on classifications of cotton goods.

While the industry has been suffering from increased inroads of cotton knitwear from Japan and more recently from Hong Kong and Spain, even more serious injury has been caused by the volume of fully-fashioned sweaters of wool entering the domestic market from these Asiatic knitting industries.

The field of fully-fashioned sweater production has been especially hard hit by these low-priced imports. The industry is hopeful that through the new Wool Textile Advisory Committee, prompt action will follow which will afford relief.

Other management members of the Wool Textile Advisory Committee are: John P. Baum, J. P. Stevens & Co.; George A. Dorr, Jr., Dorr Woolen Co.; Richard J. Goodrich, Boston Wool Trade Association; Ely Calloway, vice president, Burlington Industries; William Kent, president Kent Manufacturing Co.; Herbert Ferster, Clothing Manufacturers Association of U.S.A.; Leo Frechtel, Harry Frechtel Corp.; Ronald Mitchell, Cyril Johnson Woolen Co.; Edwin Wilkinson, president National Association of Wool Manufacturers.

Two occurrences during the past week are likely to have important bearing on the development of a solution to the textile industry's predicament in the field of foreign trade. One was the announcement that President Kennedy, when seeking renewal of the Reciprocal Trade Agreements Act in the next session of Congress, is likely to ask for a broader power over tariffs than the President ever previously enjoyed since the

(Continued on Page 85)

Knitted outerwear industry executives meet to arrange the Deborah Hospital dinner-dance to be held Thanksgiving Eve, November 22, at the Waldorf-Astoria. Seated, left to right, Sol Pacht, Herbert Alper, Benjamin Kaplan, Sol Brustein and Mac Bier; standing, Kurt Lewin, secretary of Deborah, Julius Friedman, Al Weinberg, Edward A. Brandwein and Murray Catin.

350 Will Attend Deborah Dance

Some 350 persons are expected to attend the third annual dinner-dance for Deborah Hospital on November 22 at the Waldorf-Astoria. It is the largest attendance since the Eastern District of the National Knitted Outerwear Association started sponsoring the institution.

The Barry Sisters will be among the entertainers featured at the affair, it was announced by Al Weinberg, Banner Yarn Dyeing Corp., chairman of the entertainment committee.

Benjamin Kaplan, Mayflower Knitting Mills, is chairman. Sol Brustein, Brustein Yarns, and Harry Silver, Lofties Knitting Mills, are the dinner chairmen.

Other members of the committee are David Aronow, Lee Beachwear Co.; Julius Friedman, Alba Yarns, Inc.; Sol Pacht, Pacht Mfg. Corp.; Julius Stern, Esq.; Herbert Alper, Cornish Ktg. Mills and president, United Knitwear Manufacturers League; Mac Bier, Chemspun

Yarns, Ltd.; Murray Catin, Central Yarn & Dyeing Co.; Reuben Geller, Barlin Ktg. Mills; Elliot Dennis, Central Knitwear, Inc.;

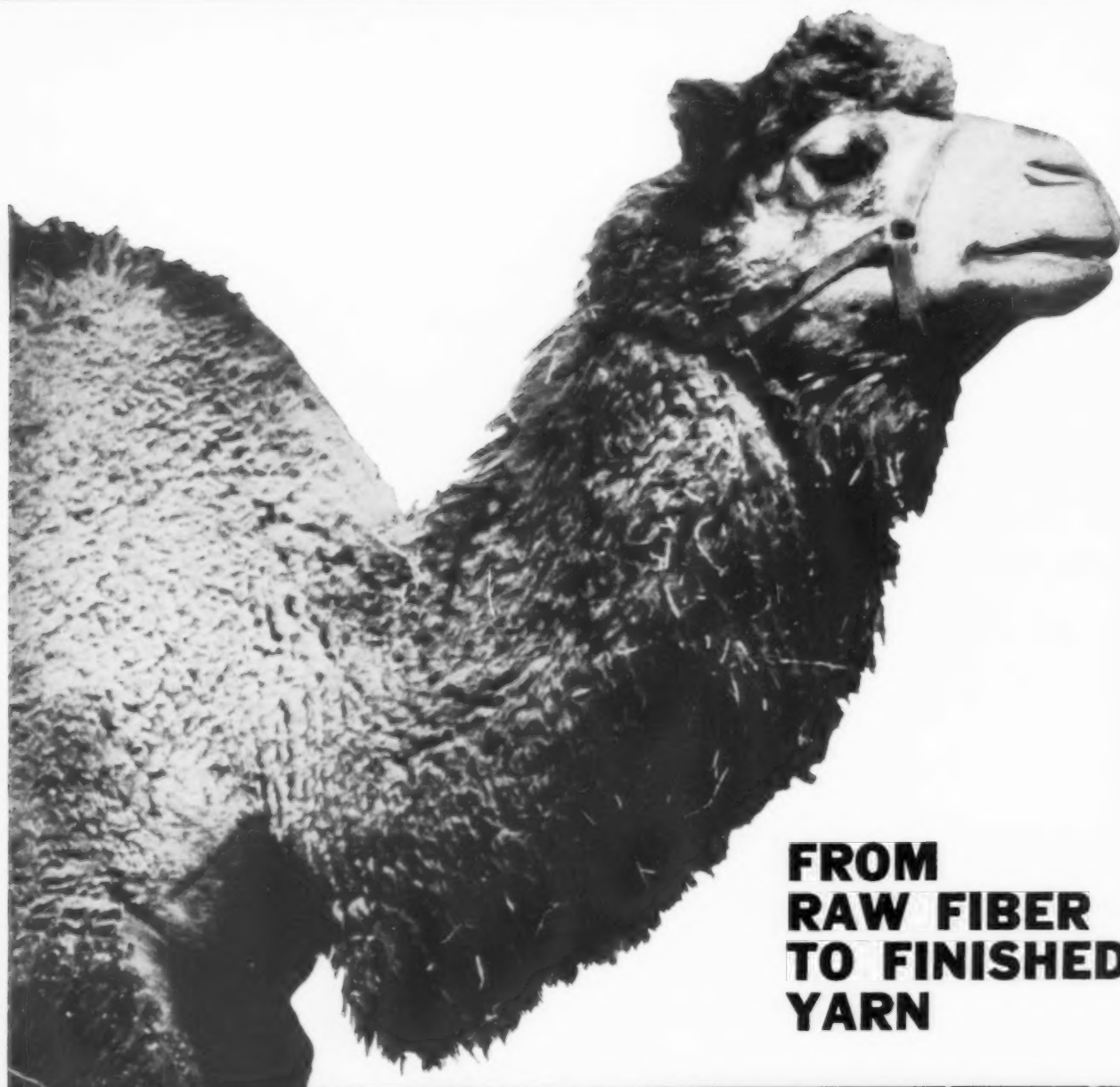
Also, Edward A. Brandwein National Knitted Outerwear Association; Ben Kaplan, Mayflower Knitting Mills; Larry Krintzman, Lansing Knitwear, Inc.; Bennet Berman, Federal Yarn Co.; Murray Ellman, Ellman Knitting Co.; Julius Friedman, Alba Yarns Inc.; Herbert Gluckson, Sunrise Knitwear Co., Martin Kamp, New York Knitting Mills; Leonard Katz, Royal Yarn Dyeing Corp.; Harold Korzenik, National Knitted Outerwear Association; Martin Lahm, M. Lahm Knitting Mills, Inc.; and Sidney S. Korzenik, executive director and counsel, NKOA.

Extra-Long Staple Cotton Production Down Sharply

WASHINGTON, D. C.—For the third straight year, production in the free world of extra-long staple cotton has declined, the U. S. Department of Agriculture reported.

SPECIAL ISSUE: Wholesale Spring Sweater Lines

Lib: Internat. Knitting Mach. Exhibition



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The Knitted Outerwear Times being the official publication of the National Knitted Outerwear Association, is exclusively devoted to the dissemination of information, the exchange of opinion, the stimulation of trade, and the general improvement of the knitted outerwear industry in accordance with the Association's basic objectives as expressed in the preamble of its by-laws.

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Manchester Knitting Machinery Show

Knitwear Dyeing, Finishing Equipment

By CHARLES REICHMAN, Editor

ALTHOUGH the focus of attention at the 1961 International Knitting Machinery and Accessories Exhibition at Manchester, England, was naturally on warp and weft knitting equipment, an amazingly large number of exhibits were devoted to yarn and fabric dyeing and finishing machinery. With double knits as significant

a style trend in England and on the Continent as in this country, it came as hardly a surprise that a good many of the dyeing and finishing displays should highlight machinery for coloring, steaming, calendering and decating these popular dress and suiting fabrics. In the present stage of double knit technology abroad, relatively few knit yardgoods mills dye such fabric in cloth form. Probably 90 per cent of the double knit cloth turned out in the British Isles and in Europe, as is the case in the U.S., are produced from skein or package dyed yarns or wool colored in raw stock or slub form.

But from the number of beam dyeing units that were in evidence on the exposition floor, it is apparent that foreign knit cloth manufacturers are as desirous of finding a successful technique for dyeing their solid color single and double pique fabrics in the piece as are their counterparts in this country.

Beam Dyeing Equipment—There are five beam dyeing units demonstrated at Belle Vue. But only one—the Italian Ilma beam dyer—is already in use in the States; the other machines appear to be of relatively recent origin.

Apart from the Italian firm, the four other companies which showed beam dyers were three British outfits—Freeman Taylor Machines, Ltd., Longclose Engineering Co., Ltd., and J. Bibby Co.—and a German company—B. Thies.

The Ilma beam dyer on display was the company's Model T/TSP. It is a pressurized high temperature unit designed for coloring all types of warp and weft knitted fabrics including plain jersey (single needle) and double knit yardgoods at the open width. Features of the machine include reversal of dye liquor flow and an open side to the tank for preparing and controlling the dye bath.

The Freeman Taylor beam dyer, called the React-O-Mat, is engineered to handle both knitted and woven fabrics of wool and synthetic fiber content. The machine handles slit tubular and warp knit fabric in up to 138 inches in width. The beam dyeing mechanism is of the horizontal type and features a control panel to govern operation of the pumps and to control temperature. The maximum temperature the machine is capable of reaching is 285 degrees F. The liquor circulation can be reversed by means of pumps.

One of the React-O-Mat's interesting features is that it has facility for checking a piece of fabric directly from the cloth beam.

The Longclose beam dyer is also of the horizontal type but is designed chiefly for either warp knitted or woven fabrics produced from natural or man-made fiber yarns.

The Bibby beam dyer, unlike the other British units and the Ilma machine, is an open unit. Beams can be varied to handle different width fabrics. The unit on display was fitted with an 18-inch diameter beam. Beams are available, however, with capacities of up to 3,000 yard lengths of 120-inch cloth.

The Thies machine is capable of reaching temperatures of up to 285 degrees F. Static pressure is employed in the machine independent of the temperature. The Gorman beam dyer is built in two models, one with a capacity of from 220 to 330 pounds of fabric, and the other with a capacity of 440 to 880 pounds of material. The machine, like the other units, has two-way liquor flow.

Finishing Equipment—For the finishing of double knit yardgoods, interest centered chiefly on an Italian continuous calendering and decating machine. The unit was displayed by Officine Guiseppe Speretto of

This is the sixth in a series of articles discussing new developments introduced at the 1961 International Knitting Machinery and Accessories Exhibition held Oct. 11-21 at Belle Vue in Manchester, England. The final report in next week's issue will discuss warp knitting machinery.

Schio (Vicenza), Italy. The machine, called Model CTN/MG, is designed to eliminate the conventional practice of calendering and decating knitted fabric on separate machines. The unit in a single operation will steam, spread, calender, decate and cool the fabric. It is designed to handle fabric of any fibrous composition—wool, cotton or blends of these fibers with synthetics—in tubular form. The machine can process extra wide circular cloth or two narrower widths of fabric simultaneously.

The machine's steel calender rolls have a brass finish to assure extra calender pressure. A control panel on the side of the machine permits easy operation and control of the unit. Decating rollers may be covered with melton, flannel or double satin cloth.

Also of interest to producers of double knit and other knitted yardgoods was a tensionless inspecting and measuring machine exhibited by G. Durrant & Sons, Ltd., Stockport, England. Called the Durrant Jersifab, this machine carries the fabric in tension-free state from an oversized drum to a smaller take-up roll. Assurance of exact fabric width is obtained from the fact that the cloth is measured at the periphery of the drum. The unit operates with an infinitely variable speed ratio and the operation of the drum can be changed from forward to reverse motion, as desired. Detection of flaws in the fabric is claimed to be made somewhat easier by the fact that the cloth rests on the oversized inspection drum at a varying angle.

Bleaching Range—For the continuous bleaching of cotton knitted yardgoods, Mather & Platt Ltd., Manchester, showed a scale model of its newly designed continuous bleaching range. The cloth entering the

(Continued on Page 5)

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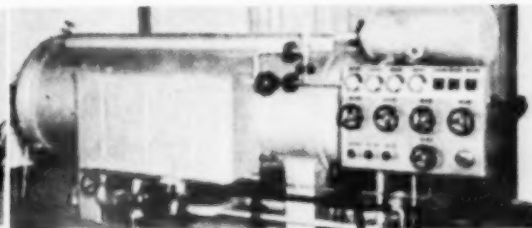
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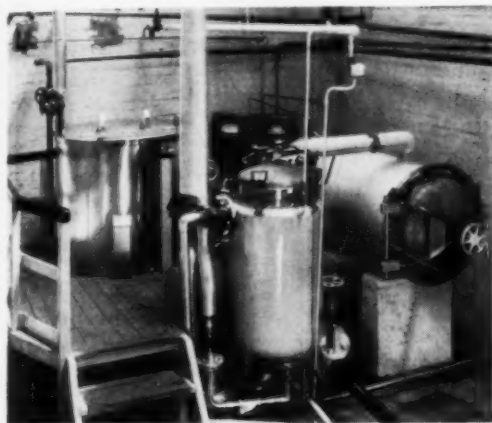
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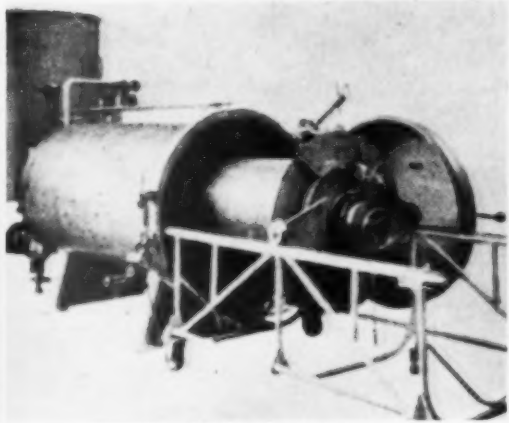
Ilma Beam Dyer



Thies Beam Dyer



Longclose Beam Dyer



React-O-Mat Beam Dyer

machine first goes through a slack rope scouring machine, after which it is processed in a slack washer. The cloth in rope form is then sprayed with sodium chlorite or hydrogen peroxide solution, depending upon which bleaching agent is preferred. After a thorough soaking, the fabric passes through a nip to reduce and control the content of the bleaching agent after which it goes into the J-box.

In proceeding to the —J-box, the cloth passes through a heat-controlled tube and on to the piler mechanism on top of the J-box. The J-box itself is lined with non-corroding titanium and has a storage capacity of 2,250 pounds of fabric.

Prior to leaving the J-box, the cloth passes through a spray wash chamber and then through controlled squeeze rollers. In the final operation, the fabric is washed in a fully relaxed state and extracted via squeeze rollers.

Other Dyeing Equipment—

In addition to the units described above for dyeing and wet processing of knitted fabrics, a number of displays were devoted to skein, package and sweater dyeing equipment.

Garment dyeing machines which were shown under the aegis of Bentley, Bibby and Longclose, among other com-

panies, were all side paddle units. Unlike in this country where the overhead paddle machine is preferred, European knit goods manufacturers who dye their knitwear in garment form favor the oval or side paddle machine.

The Bibby side paddle garment dyeing machine is built in up to 900 gallon capacity. It is claimed to have a single load capacity of up to 45 dozen full-fashioned wool, Orlon or Ban-Lon sweaters. The machine's cover is in various positions which makes loading relatively easy.

It is equipped with an inspec-

tion cover in the paddle flap and a color addition tank. The paddle which agitates the dyeing solution is of unusually heavy construction to produce uniform liquor flow.

Among the various skein dyeing machines available at the show were the well-known Pegg pulsating type machine and the Ilma T/FM. Latter has a lid-type carrier which can be lifted out of the tank. The carrier has notches for different stick positions to accommodate different sized skeins.

A skein dyeing machine was also on display at the Longclose

booth. The machine was the company's Mark V. The model had a capacity of 250 pounds. The Mark V is available, however in two other sizes—150 pounds capacity and 500 pounds. To obtain additional capacity two 250 pound or 500 pound kettles can be coupled to operate in pairs.

A double stick skein dyeing machine, the Longclose skein dyer, is fitted with a specially engineered propellor chamber. The kettle has no partition plate which, it is claimed, assures that the liquor flow will be free of turbulence.

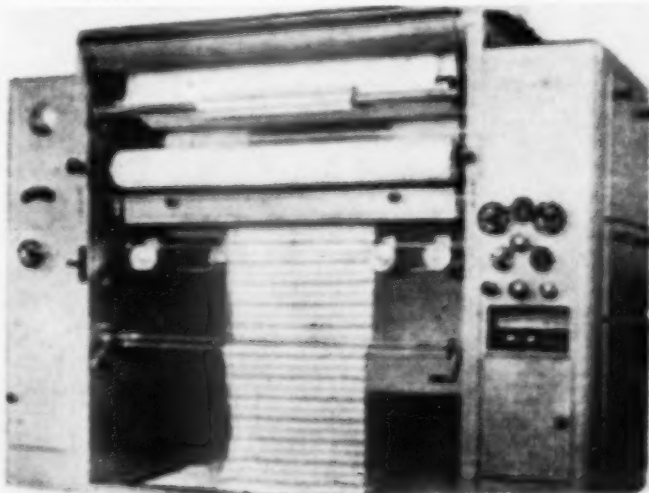
The machine's double dye-sticks are of triangular construction and are set up at staggered intervals. The first feature is said to eliminate resist and glaze marks; the second is designed for the handling of high-bulk synthetic fiber yarns.

Other specifications of the machine include a close coil heat exchanger system for heating and cooling; a two-speed motor with automatic reverse timer and starter and a built-in thermometer.

Drying Machinery — Among the fabric drying units shown was the Aerodyne dryer. This unit was displayed by L. A. Mitchell, Ltd., which is producing the dryer in the United Kingdom and Europe under contract from S. Augstein & Co. The machine, which is marketed in this country by Joseph Pernick & Sons, dries fabric on the principle of recirculation of hot air. In the process the fabric is opened to the circular form and then refolded into flat width to the required dimension.

Thermosetter — Only one unit for the heat setting of textured filament nylon sweaters was seen at the show. Called the Andrews Autosetter, it is the product of Andrews Engineering and Development Co. Ltd., Nottingham.

The unit is a tray-type thermosetting autoclave produced in several sizes. Its steam chamber's rectangular construction assures that the steaming capacity will be fully employed. Pressure, depending on the size of the machine, ranges from five pounds per square inch to 30 pounds per square inch. Maximum temperatures of the different size models extend from 226 degrees F. to 275 degrees F.



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IFKS Conference Paper

Modern Knitting Control Via Positive Yarn Feeding

By J. C. HOPKINSON

Hosiery & Allied Trades Research Association

ANY knitting control system should ensure as far as possible that the knitting machines are running at some optimum level that gives the highest garment or fabric output for a specified quality. Included in the term quality are fabric appearance, dimensions and weight. Broadly speaking, the maximum machine output for a given machine running time is decided by the machine builder when he specifies the revolutions per minute of the machine. It is therefore the quality that we are mostly concerned with when we speak of knitting control.

To introduce modern knitting control, I would first like to show you how little the general concept of knitting control has changed over the past 50-100 years. In this time remember the machine builders' ingenuity has increased the speed of production and patterning scope of the knitting machines he supplies 50 fold.

During the days of Paget, Cotton and Townsend, the control of production speed, fabric appearance and dimensions when producing fashioned articles was in the hands of the knitter himself. The knitter would increase or decrease the number of courses in any part of the garment so that it should conform with some measurement, probably marks on the side of the knitting frame itself. It was in fact the slowness of production that enabled the knitter to compensate for changes in fabric appearance and dimensions while the garment was being produced. In the case of the higher production of tubular fabric that was cut and sewn to the hose shape, the end-use of at least 90 per cent of knitted fabric in those days being for hose, it was the cutter who controlled the dimensions.

The weights of garments were of minor concern at this time since knitters were paid by length or width.

As knitted fabrics enlarged their field of application and large diameter circular knitting came into use, the use of linen provers or piece glasses, as they are now known, became common place. Fabrics came to be specified by courses per inch and weight and garments by length and weight. These types

of specifications have been in common use since the introduction of chains to control the number of courses in the garment. They have changed little although the yarns and constructions into which the yarns are knitted have multiplied considerably. The methods adopted in fact to measure quality prompted Chamberlain to say in his book, *Manufacture of Knitted Footwear*, "Knitting — even machine knitting — must still be regarded as an art rather than a science, and constant examinations for length are required, especially where lengths are obtained by a chain and not by measurement of the operator."

The intensive work done in the laboratories at the Hosiery & Allied Trades Research Association on fabric geometry lead to the realization of the importance of controlling course length to control fabric dimensions, weight, and to some extent, appearance. Instruments were devised to measure the the course length and the use of Yarn Speed Meters and Yarn Length Counters has become widespread. The readings obtained from using these instruments are used not only to predict fabric dimensions and weights, but also to control fabric appearance. I believe that the lining-up of the super multi-feed machines to ensure that all the feeds are consuming the same

amount of yarn, and so ensure regular fabric appearance would be nearly impossible without such instruments as these. The improved knitting control results obtained in mills that base their control on measurements of course length one way or another amply proved HATRA's theory that the basic parameter to control was course length.

The next step was obviously automatically to control the course length, and so achieve automatic knitting control. The standard method of automatic control was the obvious one to try first. By the standard method I mean a comparative system either mechanical or electrical where for instance, should machines vary, this variation operates a servo-system to bring the machines back into control. This system was tried on seamless hose machines where it worked fairly successfully. It was however, expensive, and the upkeep of this type in an industry which is essentially mechanical, can raise difficulties.

This system was therefore abandoned in favor of what is called the positive feed system where a predetermined length of yarn is fed to the machine per course. The simple mechanical device used in the positive feed system works successfully because the knitting action is not positive.

The whole point of the positive feed system lies in the fact that the manufacturer using it knows within very fine limits how much yarn per course is being used by his machines. Thus, once he decides on a quality, he can quickly and

Partial text of talk given by Mr. Hopkinson at the 6th Annual Conference of the International Federation of Knitting Specialists held in Manchester, England, Oct. 8-13.

simply set the positive feed to give this quality and is confident that no matter how long the machine may run, it will maintain this quality level. The positive feed quality setting is not affected by machine speed, yarn count or friction, humidity or temperature, nor can any unauthorized person affect the quality even by adjusting the quality screws.

Many of the fabrics and garments are already being produced in factories using this modern knitting control system. Results taken from the fabric producing machines, comparing positive feed control with factory control are shown in Table I. The range should be as small as possible to produce the most level fabric. The improvements resulting from the use of positive feed can therefore be seen by comparing those ranges.

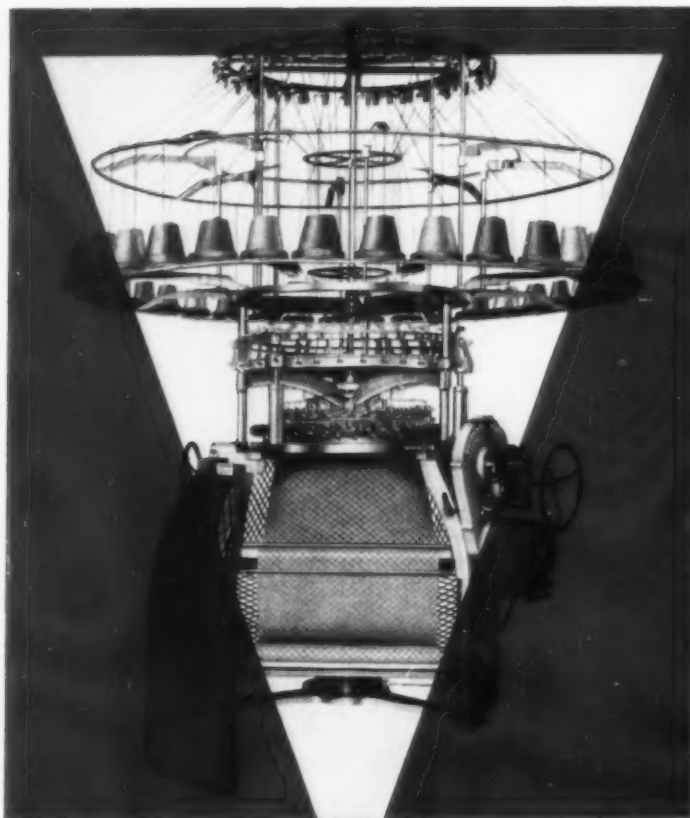
I hope these results have given you some idea of the advantages to be found in ensuring that your knitting control system is kept up to date. It is only by doing this that you will be able to make full use of the increased production of the machines that the machine builder offers you. It is no use the machine builder making his machine produce faster if you have to stop the machine more often to check for quality. Similarly it is of little use the spinners and throwsters offering you different yarns, if, by using these yarns, you knit

(Continued on Page 76)

TABLE I
Comparison of Positive Feed and Factory
Control Results on Fabric Machines
(Measured Course Lengths)

	30 Feed Interlock		12 Feed Plain Jersey		4 Feed Terrot (Plain Jersey)	
	P.F. Control	Factory Control	P.F. Control	Factory Control	P.F. Control	Factory Control
AVERAGE	173.34	178.17	161.73	196.59	147.08	194.38
RANGE	1.2"	11.3"	0.9"	7.4"	1.1"	9.0"

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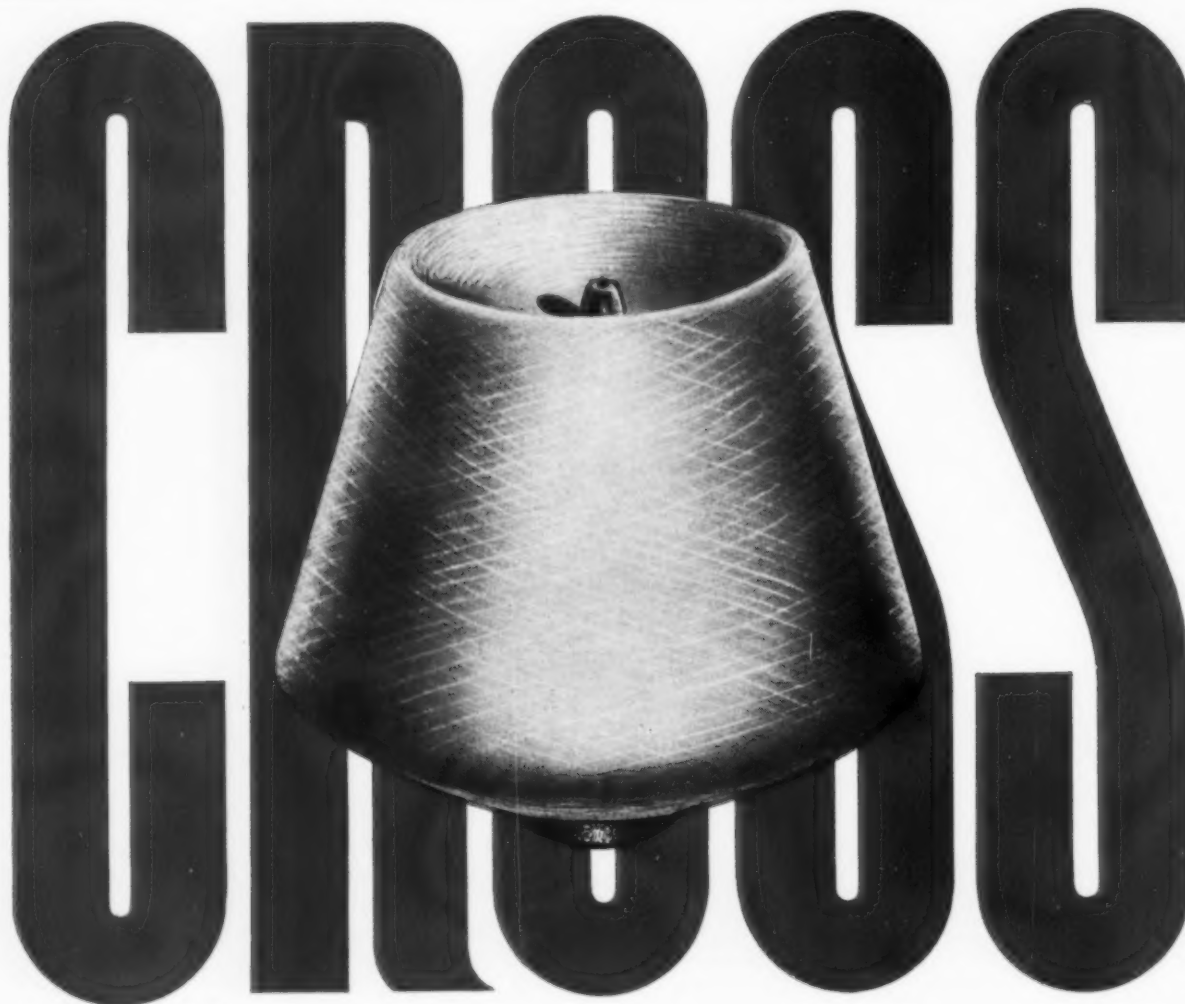
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Production Techniques

Plant In Whittier, Calif., Does The Knitting For Catalina

By ALAN SIEGLER

LOS ANGELES, Calif. — Knitting for Catalina, Inc., manufacturer of swimwear, sportswear and sweaters for men, women and children, is done at a six-year-old plant in Whittier, some 11 miles from the new headquarters and shipping building in the central manufacturing district of Los Angeles.

The equipment includes seven plain Terrots, used mostly to produce pique fabrics for the fall line; Wildman-Jacquards; Mayers; a Terrot RMR wheel type (there will be another soon); two Wildman-Jacquard MLW, six Scott and Williams, a Supreme ROF; four Brinton wheel types, and one Supreme RW (another of these is coming, too).

The plant is turning out fabrics for skirts and dresses on the plain Terrots, for swim suits on the RMR and for dresses on the Mayer. On the Scott and Williams units, the fabric is cotton interlock with Lastex, 70 2s stretch nylon with rubber, and Vyrene and Helanca. In the swim suit season, nylon is run on the Terrots.

Each roll of fabric is weighed and inspected on a Pernick frame as it comes from the knitting machine. All white fabric is covered immediately with polyethylene sheets.

As the yarn is received in the plant, it is checked for weight. There are sample bins for receiving. The dyed yarn comes from Jenkins & Wright and Dye-master. Like other plants here, dyeing is a problem. Most of the quality houses are in the East.

Backwinding is a must on all Terrot yarns to insure uniform winding and to eliminate knots.

After nylon comes off the machine, it is washed, flap folded and sent out for piece dyeing or printing.

Across the way and into a second and larger building that houses more machinery and the nerve center and directing force of the plant, the visitor is taken through a shipping and loading area.

In the larger building, sweaters are knitted. The machinery includes Wildman Jacquards. There are 34 TA body size machines, two TAI's, two Ordinance Gauge OTs and 15 9½ cut jacquards, five TJI's and 10

TJ's. All trim for swim suits and sweaters is knitted on flat machines.

Eight attachments invented by RayNogler for the firm turn out cable stitches, and there are two links and links machines.

Weights in sweaters are controlled. The knitter tags the garment and weighs it. It is then inspected and, if necessary, mended. From there it moves to washing, pressing and cutting. There are four washers, six tumblers, two extractors and five pressers.

An order is shipped out as one unit. All jacquard goods are cut of 2/26 zephyr yarns. All are brushed on McCreary machines and then pressed.

The company is proud of its testing procedures, a gamut of fine toothcombing. An oven tests various strengths and resistances. Breaking strength is measured on a Scott tester. There are devices to calculate dimensional stability, color fastness, resistance to slippage, stretching and water immersion. A special test is made for the effect of sea water on metallic yarns. All fabrics, especially acetates, are checked in a natural gas chamber. In all, there are some 30,000 separate observations in 3,000 tests.

In the cutting and sewing room, production was doubled this year and the company is pushing for more step-ups. There were 70 machines last year, now there are 125, 50 of which have individual drives.

The full line of sweaters had to be pulled off in June. Salesmen reported a sellout.

The Whittier plant makes most of Catalina's sweaters. During the off season, it converts to men's swim trunks and women's cotton knits. The plant runs all year.

Finishing, such as sponging, is done outside; washing and calendering on the premises.

Whittier is one of 22 plants

in the Catalina complex. The center, to which all products are delivered for shipment to the distributors, and from which the executive commands go out, is a new two million dollar building with a swimming pool set down in the middle of a heavy industry district of Los Angeles.

An eight-car rail spur debouches from the building. Only manufacturers who maintain a set minimum shipping level in dollar value are leased property in the district. Catalina's neighbors, from Crucible Steel across the street, to a Ford plant nearby, are the mammoths of American industry.

Loading docks for 22 trailer trucks are provided.

The building has 35,000 square feet of office space and 140,000 of warehouse area with equipment for packaging, storage and shipping.

Quality control begins at the building, where all raw materials used in Catalina products are inspected, tested and shipped to the factories. Finished garments, are received after they have been tested at the factories and are re-tested in the headquarters building. They are inspected by a central quality control department, using statistical sampling techniques. The garments are then issued to the packaging department for boxing and storage.

Accurate account records are kept by an IBM RAMAC 305, which has a five million character capacity for stock records, unit control, customer orders and shipped orders. A second 305 will be installed November to meet the needs of an expanding business.

With the two machines, it is planned that each order will be entered as it is received. It will then be given an allocation number and forwarded to the warehouse and shipping facilities as stock is available. Under the system it will be possible to ship an order within 48 hours after receipt.

The warehouse has receiving, packaging and shipping space on the first level and stock storage space on the second. Shelving accommodates a capacity of 1,500,000 boxes. The levels are



Over eight miles of shelving have been installed in the stock storage floor at Catalina. The capacity is 1,500,000 boxes of merchandise.

linked and serviced by an automatic overhead tow mast truck system, operating from floor to floor on an inclinator and declinator.

Merchandising from the manufacturing plants is delivered at the east side of the first level of the building and routed to the boxing department in the central area. After it is ticketed and packed, the packers load it on a truck and set a four-position flag indicator to direct it to the stock area where the merchandise will be stored. The truck is then left in the path of the overhead tow system and is automatically picked up and transferred to the second floor by the inclinator. An electronic checks and balances system prevents overloading of the inclinator.

The tow system winds through the eight miles of steel storage shelving, automatically stopping at the point indicated by the flag. If the truck is not disengaged by stock personnel within two minutes, an alarm horn sounds until the truck is disengaged from the system.

Loaded and unloaded trucks constantly circulate around the tow system. Free trucks that have been disengaged for loading by packing and stock personnel are available for order picking; 250 trucks have been provided. Stock personnel store boxed merchandise from the packing department and fill orders forwarded

(Continued on Page 13)

Franklin Colorbred Yarns

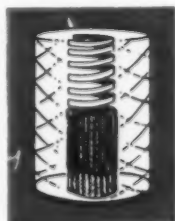
Trade Mark



THEY PROVE THEIR QUALITY HERE

Just as Franklin Colorbred Yarns are finished and wound to deliver properly at your knitting machines, or in winding or warping, so are they dyed to stand up to finishing specifications. We determine in advance in our laboratories the relative fastness of various dyestuffs and select them accordingly for a specific purpose.

Of course you want uniformity of shade also, and Franklin Colorbred Yarns have it. That's because of the Franklin Compressible Spring Package. Soft packages compress more and hard packages less, into



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Additional Sales Offices at Greenville, Chattanooga, Philadelphia (301 Swede St., Room 506, Norristown, Pa.), and Providence (1045 Warwick Ave., Warwick, R. I.).

from the IBM division. After loading a truck with filled orders, a stock fill leaves the truck in the path of the tow system to carry it down to the first level. The truck is automatically picked up by the overhead chain and transported downstairs on the declinator. The system then delivers the filled truck to the shipping facilities on the western side of the building. Here, constructed facilities for carton filling and packaging have been installed. Transportation of cartons ready for shipping is on an automatic belt process from packer to scales to postage machine to truck loading or rail spur.

With all the warehousing in one area, customer orders from different divisions may be consolidated rapidly and accurately. At last report, efficiency has been increased 25 per cent.

The executive offices are ultra-modern. The lobby and reception area has walls and floors of marble. The executive offices have teak toned desks and wall-to-wall carpeting.

The office of president John E. Watte, Jr. is decorated with custom built Louis XVI furniture. A conference room is wood-panelled, dominated by a large teak table and swivel chairs upholstered in saffron.

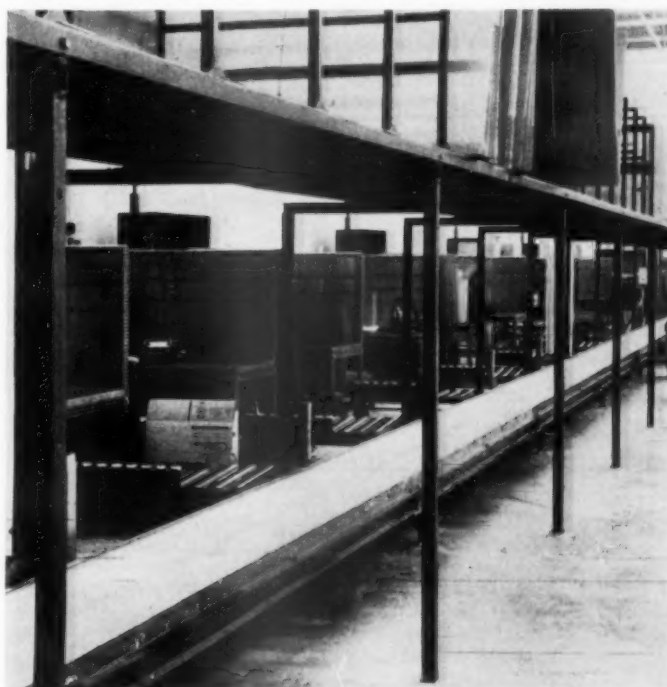
The employees' cafeteria has a stainless steel kitchen and looks out on the patio and swimming pool.

Also overlooking the pool are design room facilities for the eight designers. Each room is off a large central sample sewing room. Adjoining are a showroom and dressing rooms and showers for the models.

Catalina is a wholly owned subsidiary of Kayser-Roth Corporation, which also owns Cole of California. Catalina was organized in 1907 as the Pacific Knitting Mills for the manufacture of knitted undergarments and sweaters. In 1912, it went into knit swimwear.

The infant Catalina had 5,000 square feet, grew to a six-story building on San Pedro Street in downtown Los Angeles and then in July 1960 moved to the new building.

The firm maintains showrooms and regional sales offices in Los Angeles, Chicago, Dallas, Atlanta and New York City, and showrooms in other cities in the U. S. and overseas. Its

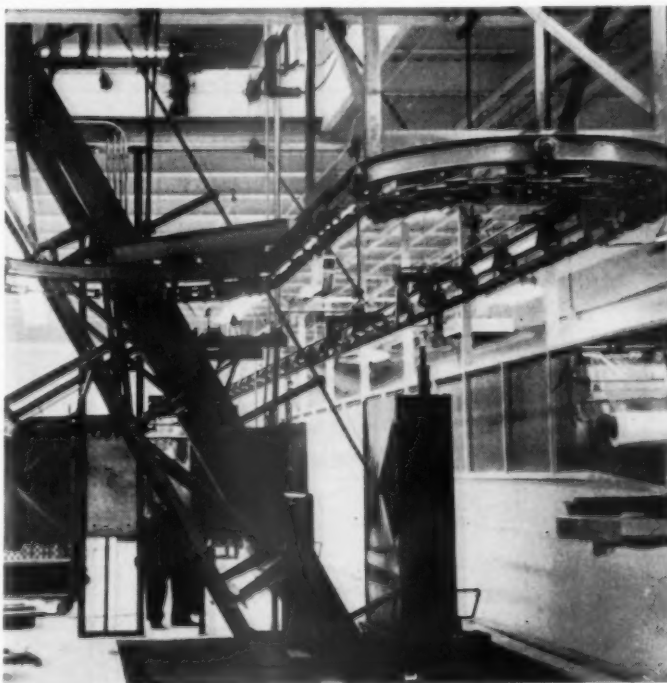


The shipping department in Catalina's new International Headquarters building was designed by time and motion experts. It has overhead storage for shipping cartons, rollers which tip to accommodate large or heavy boxes and a moving belt to carry packed merchandise to scales and transportation. Unpacked merchandise is delivered to packers on an automatic tow system.

licensees operate in Argentina, Australia, Brazil, Canada, Chile, Colombia, England, Ecuador, France, Germany, Mexico, New Zealand, Peru, South Africa and

Spain.

Counting all its customers, Catalina estimates that last year it put its garments on 8,000,000 persons.



A truck in the warehouse is about to ascend the inclinator. The overhead system runs through both floors of the Catalina warehouse and operates from floor to floor on the automatic inclinator and declinator.

Bams Knits To Build Plant; Ready In '62

SAN FRANCISCO, Calif.—Duskin Manufacturing Co., makers of Bams Knits, recently purchased a site for a new factory which, according to present plans, will be built in 1962. The land is located in San Mateo County, just a few miles south of San Francisco, and two miles from Bams' original 500 square-foot home. The new building will have 30,000 square feet or more. The land area is 45,000 feet.

The factory will be built to the firm's own specifications. Construction will start early next year.

The history of the firm is one of continuing growth. During its first year, sales totaled \$35,000. This year, the combined sales of the two corporations—Bams Knits, the sales portion, and Duskin Manufacturing Co., the manufacturing corporation—will be about one and a half million dollars. Mr. Duskin reports that sales in 1959 topped every previous year, 1960 was better than 1959, and indications are that this year will wind up some 30 per cent ahead of last.

Coat And Suit Maker Produces Knitwear

SAN FRANCISCO, Calif.—Lilli Ann Corp., the largest manufacturer of coats and suits on the West Coast, recently entered the knitwear field with a collection of double knit costumes and suits of wool.

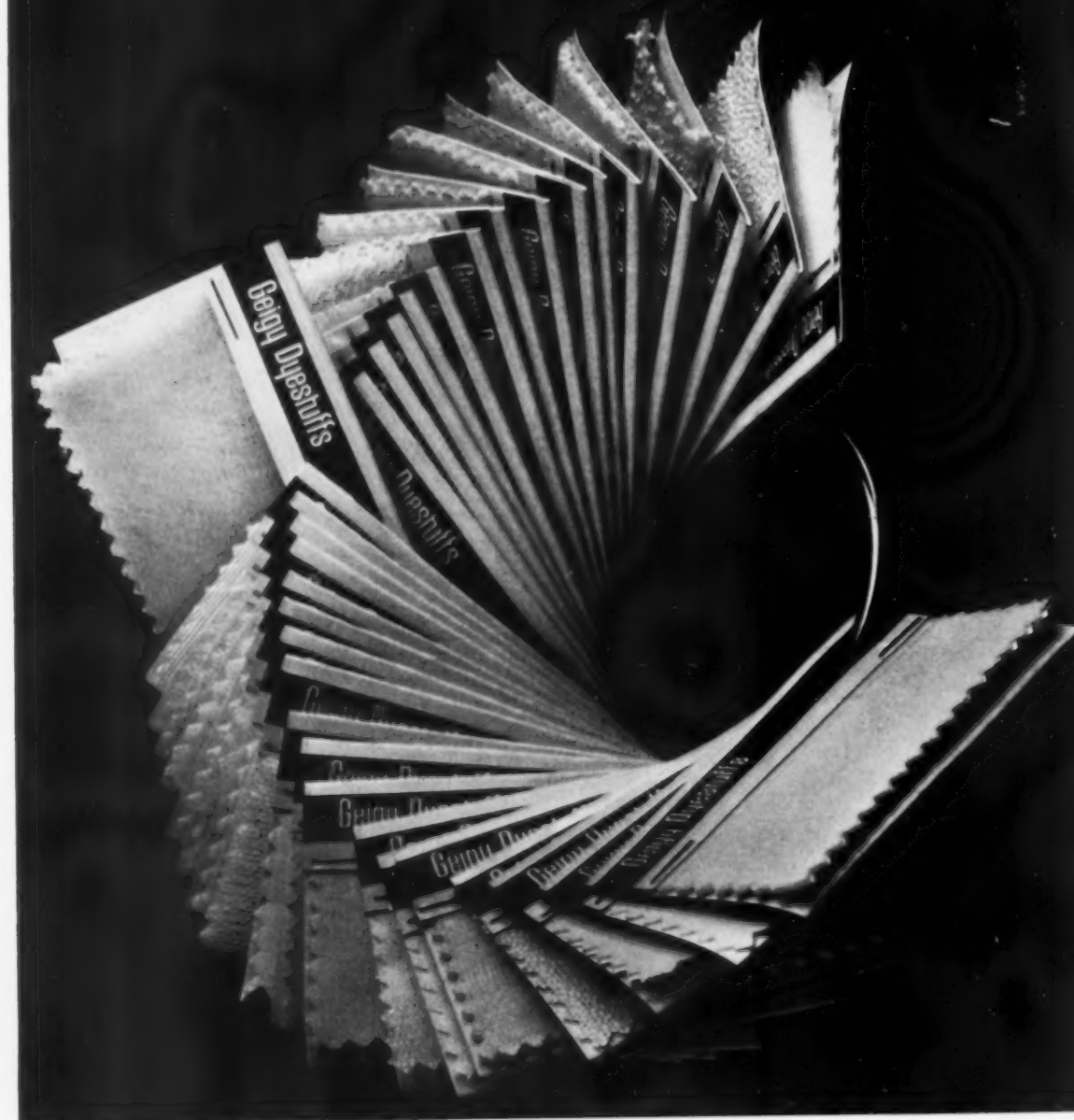
Using fabric from Lana Knit of London, Lilli Ann has extensive plans for the future. In the spring, it expects to set up a separate plant to handle the knits—a corporation in which Lana will have an interest with Lilli Ann maintaining control. The new factory will be close to the present one at 2701 Sixteenth St.

This season, knits will account for about 25 per cent of the Lilli Ann's total suit production. By spring, with the addition of the new location, it is expected this figure will be increased to 50 per cent.

Lilli Ann is noted for its use of fabrics from all over the world, including wools from England, France, Ireland, and Italy and silks from Thailand and India.

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Laminated Knits

Knitted And Woven Fabrics Bonded To Urethane Foam

By NICHOLAS NEWMAN, JAMES BLORE¹ and DANIEL FRISHMAN
(Malden Mills)

ABOUT three years ago the first garments were made from a material consisting of fabric laminated to urethane foam. The rapid success of these laminates is evident from a recent estimate which claims that about one million yards will be used in 1961. Many of the fabrics which have been enthusiastically received as laminates had been available for many years but they were not used in an unlaminated state because they were too thin or easily distorted. The foam makes fabrics dimensionally stable and the textile component compensates for the low tensile strength and poor abrasion resistance of the foam.

When laminated to urethane foam, the fabric is the surface of the material. In contrast, leatherlike materials have as their surface a vinyl film or foam which is laminated to a knitted cotton or nylon jersey. The vinyl laminates have largely replaced textile materials in automobile upholstery. Recent developments in vinyl foam have stimulated their use in garments. Urethane and vinyl laminates have some shortcomings, but considerable research is being done to improve these products and their further expansion into textiles is certain.

The chemical and physical properties of urethane foams are adequately described in the literature (2) (8) (9) (10) and similar information on textile fabrics is available (11) (12). No similar quantitative data have been published for the combination of polyurethane foam with textile fabrics, and it is the purpose of this paper to compare the laminated material to conventional textile fabrics.

Chemistry, Foam Manufacturing, and Laminating—Chemicals used for manufacturing polyurethane foam can be varied depending on the end use requirements. For garments, a diisocyanate is reacted with polyesters to form a foam which is soft, resilient, washable, dry-cleanable, and easily laminated.

1. Present Address: Deering-Milliken Co., Laurens, South Carolina.
2. The authors thank the Messrs. Feuerstein, principals of Malden Mills, for the opportunity to make this study.

The basic urethane reaction is the reaction of an isocyanate with a compound containing active hydrogen, as in water, alcohol, amines, acids, and amides.

The chemical materials, catalysts, and the conditions of the reaction affect the density of the foam, the size of the cells, and the cell wall structure. These in turn influence the mechanical properties of the foam.

It is interesting to note that urethanes are made into textile fibers to form rubberlike spandex yarns. The urethane linkage is similar to the amide linkage present in nylon. The additional oxygen in the urethane linkage probably accounts for the flexibility and elasticity of urethane fibers.

The foam is usually made continuously and cut into large blocks. The blocks are sliced or then "peeled" into long sheets about 3/32 inch thick just as veneer is cut from a rotating log. The usual foam thickness is 3/32 inches, but this may be varied. For example, spring weight fabrics use 5/64 inch foam.

Ideally a lamination process should give a flexible fabric having a permanent bond which withstands washing and dry cleaning. To date these requirements have been met by using the flame lamination process. In this process the surface of the foam is heated usually by a gas flame until it becomes soft and tacky and is immediately bonded under pressure to the fabric. U.S. Patent 2,957,793 (15) describes a specific application of this general process as follows:

"A method of forming a laminate construction which method comprises heating a sheet of foamed polyurethane plastic material of the polyester type by contacting the same with a gas flame at the surface for a time

TABLE I
Fabric Samples Studied

Sample No.	Construction	Fiber Content	—Weight (oz./yd. 2/yd. ²)—	
			Greige	Laminated
1A	Bulky knit, half cardigan..	Cotton	20.5	17.4
1B	Bulky knit, half cardigan..	Cotton	16.9	15.5
1C	Bulky knit, half cardigan..	Cotton	14.6	11.4
2A	Knit, half cardigan.....	Cotton	9.8	10.0
2B	Knit, half cardigan.....	Cotton	7.9	9.1
2C	Knit, half cardigan.....	Cotton	5.5	6.6
3A	Bulky knit, half cardigan..	Wool	15.7	14.7
3B	Bulky knit, half cardigan..	Wool	10.4	9.7
4	Knit, jersey	80%-20% Orlon-Wool	—	5.8
1B'	Sample 1B laminated to Sample 4	—	—	19.8
5	Woven sateen	Cotton	7.4	9.2
6	Woven 80 square.....	Cotton	7.2	9.0
Original Foam only (.090").....			—	2.11
Foam delaminated from 80 square cotton.....			—	1.84
Foam delaminated from 3B (.075").....			—	1.75

TABLE II
The % Change In Area Under A Load Of 2 Kilos

Fabric	Change in Area (%)	
	Greige	Laminated
Bulky cotton half cardigan.....	14	4
Cotton half cardigan.....	26	8
Bulky wool half cardigan.....	14	8
Original foam only.....	—	3
Foam delaminated from 80 square cotton.....	12	—
Foam delaminated from bulky wool half cardigan...	19	—

TABLE III
Thickness Of Laminated Fabric And Foam

Fabric	Weight of Laminated Fabric (oz./yd. ²)	—Thickness (Inches)—	
		(at .053 lbs./in. ²)	(at 0.955 lbs./in. ²)
Knit half cardigan, cotton.....	17.4	0.182	0.126
Knit half cardigan, cotton.....	15.5	.183	.121
Knit half cardigan, cotton.....	11.4	.144	.092
Knit half cardigan, cotton.....	10.1	.091	.073
Knit half cardigan, cotton.....	9.1	.087	.060
Knit half cardigan, cotton.....	6.6	.075	.056
Knit half cardigan, wool.....	14.7	.240	.137
Knit half cardigan, wool.....	9.7	.201	.109
Knit jersey, Orlon-wool.....	5.8	.078	.046
Sandwich laminate	19.8	.184	.131
Woven sateen, cotton.....	9.2	.066	.044
Woven 80 square, cotton.....	9.0	.077	.037
Original foam only.....	2.11	.090	.025
Foam only, delaminated from 80 square	1.84	.068	.017
Foam only, delaminated from wool bulky	1.75	.074	.018

sufficient to fuse a surface layer only and thereby to render substantially only such surface layer soft and tacky, and pressing a sheet of fabric material onto said soft and tacky layer after the latter has cooled to a temperature below the fusing temperature of the foamed polyurethane material."

During lamination careful control is necessary in order to obtain a strong bond without at the same time burning off

more than the usual 1/32 inch of foam. Excessive oil or other finishes on the fabric will decrease the strength of the bond.

Another method of lamination employs adhesives usually applied to the surface of the foam to bond the fabric to the foam. In the past, the adhesives were not permanent to dry cleaning nor were the laminated fabrics flexible. It has been reported that adhesives are now available

(Continued on Page 17)



hanksgiving-1961

In this season of reflection, we remember not only the material gains of this nation's history, but the deep intangibles of personal spirit and determination which brought collective strength and fruitful growth.

These qualities, enriched by basic moral and religious precepts, have wrought the underlying unity which survives through tensions and critical conflict.

Upon them now may well rest man's hopes of future seasons of Thanksgiving meaningfulness for all . . .

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which overcome these difficulties (14). A small amount of adhesives is less expensive than the 1/32 inch of foam lost in flame lamination and with adhesives thinner foams are used which cost correspondingly less. But exponents of flame lamination claim that foam is decreased in thickness even with adhesives and that there is little or no economy. A recent general review of knit laminates discusses these points (14).

Our observations suggest that bonding occurs during flame lamination by individual fibers being embedded in the softened foam. Indirect evidence for this is indicated by the fact that smooth fabrics frequently must be napped prior to lamination in order to obtain a strong bond.

Foam is creamy white in its natural state and is usually colored with pigments during foam formation to match fabric colors. Foam can also be printed or dyed. Lightfastness of foam is generally poor because the foam yellows but in use the fabric

shields the foam.

Materials — Knitted cotton, wool and Orlon-wool fabrics covering a wide range of weights were prepared at Malden Mills while woven cotton sateen and 80 square were purchased. The knitted fabrics were tented or calendered prior to lamination to make them conform to the desired width. The fabrics were bonded to foam which weighed about 1.8 lbs. per cubic foot by the flame lamination process. Tentering and lamination frequently stretch the fabric and decrease the weight per square yard so that the combined weight of fabric and foam in the laminated state is sometimes lower than the original greige cloth as shown in Table I.

Within each group of fabrics shown in Table I, the weight was varied by changing the number of yarns per feed, but the large changes among the groups represent different knitting constructions and yarn sizes.

The weight of the foam after

laminating was obtained from those samples where the foam could be stripped from the fabric. The percentage loss in weight of the foam as a result of laminating corresponds approximately to the percentage loss in thickness.

Dimensional Stabilization by Lamination — The main reason for laminating a knitted fabric is to obtain a dimensionally stable material. In order to determine to what extent lamination actually does this, a device was employed which applies forces uniformly all around the perimeter of a circular piece of fabric (U.S. Testing Co. shrinkage gauge). In this way a total force of about two kilos or 100 grams at each of 20 points was applied to the fabric and the change in area determined.

The average values for groups of fabrics are shown in Table II. It is apparent that the fabrics have been considerably stabilized by lamination. Actually, some of the data in Table II for the

greige fabrics are misleading because the fabrics are stretched during lamination and are sometimes more stable than is shown.

Modification of the foam as a result of flame lamination is apparent in Table II. Original foam stretches about three per cent in area but foam which has been peeled from a laminated fabric stretches as much as 19 per cent by the test described above. In spite of the flexibility of both foam and fabric, the laminated structure is a stable system.

Although the shrinkage during laundering of greige fabrics and laminated materials were compared the results were erratic and only a few general statements can be made.

Foam does not shrink during laundering but the laminated materials can shrink and the degree of shrinkage is a function of the fabric portion. Cotton, wool or rayon laminates, will shrink unless the fabrics have been stabilized. Fabrics which

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TABLE IV

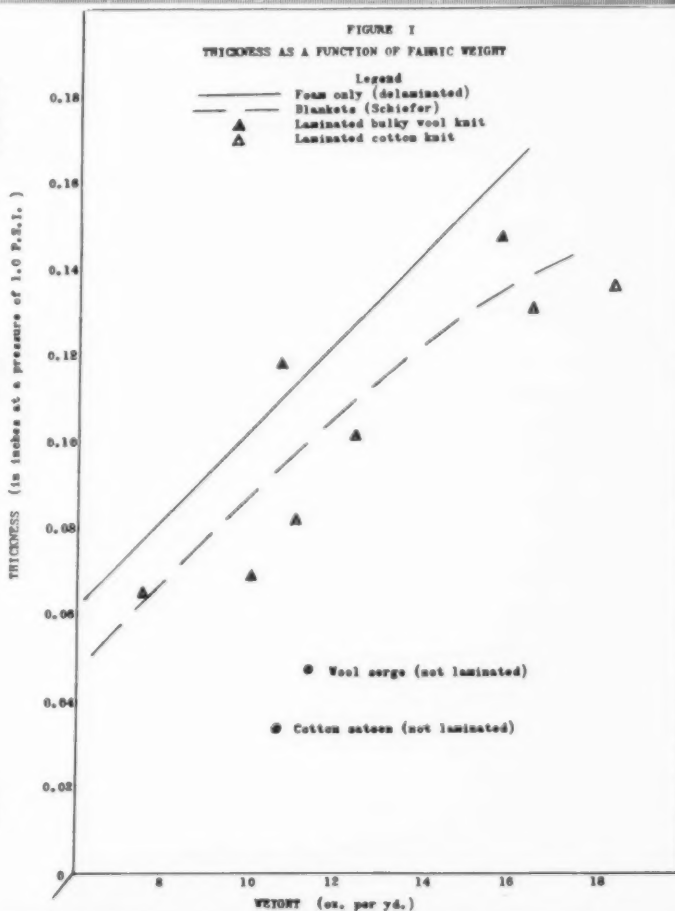
Fabric	Air Permeability (Fourt & Harris) FT ³ /FT ² /min. at 0.5" Water Pressure
Mosquito Net	1300
Knit Cotton Undershirt.....	220
Palm Beach Suit.....	160
8.2 oz. Army Uniform.....	12

TABLE V
Air Permeability Of Laminated Fabrics

Fabric	Weight oz./yd. ²	Air Permeability FT ³ /FT ² /min. at 0.5" Water Pressure
Bulky cotton half cardigan.....	17.4	81
Bulky cotton half cardigan.....	15.5	140
Bulky cotton half cardigan.....	11.4	184
Cotton half cardigan.....	10.0	82
Cotton half cardigan.....	9.1	161
Cotton half cardigan.....	6.6	14.5
Bulky wool half cardigan.....	14.7	290
Bulky wool half cardigan.....	9.7	360
Knit jersey	5.8	111
Sandwich laminate	19.8	76
Woven cotton sateen.....	9.2	36
Woven cotton 80 square.....	9.0	64
Original foam 3/32" not lam.....	2.1	59

TABLE VI
Air Permeability Of Foam

	Weight oz./yd. ²	Thickness (Inches)	Air Permeability FT ³ /FT ² /min. at 0.5" Water Pressure
Original foam	2.11	0.90	59
Flamed foam (not laminated)....	1.96	.80	102
Foam delam. from wool bulky knit	1.75	.75	486





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No time or money wasted in trial and error when working with wool . . . can be handled without special controls . . . runs better on machines... always reliable, its performance is proven.

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Wool is less costly to dye... dyeing is easier, doesn't require special machinery . . . easier to wind . . . takes the widest range of shades, with no color-matching difficulties.

are very light in weight are frequently stabilized by the foam.

Neither the fabrics nor the foam shrink during dry cleaning and the combined structure is stable in this respect.

Thermal Transmission— Schiefer (1) demonstrated that insulation is directly related to thickness of the fabric and is independent of the type of fiber. He gave the following relationship:

$$T = \frac{1}{3.0t + 0.63}$$

Where T is the thermal transmission expressed in BTU/F°/hr/ft² and t is the thickness of the fabric.

If one substitutes the quantity "one inch" for "t" in the denominator of this equation, the thermal transmission of a hypothetical fabric one inch thick is found to be 0.28. R. Hurd (2) reported a thermal transmission of 0.29 for one inch of foam weighing 2.5 lbs. per cubic foot. Nopco Chemical Co. reported (10) a thermal transmission of 0.28 for one inch of foam weighing 2.0 lbs. per cubic foot. It is apparent that the thermal transmission values of foam and textile fabrics of the same thickness are identical. Since foam is generally thicker than most apparel fabrics its contribution to insulation is greater than that of the fabric.

Thickness — Generally thick fabrics are low in density and readily compressible. Pile fabrics, (13), napped materials, quilted structures and foam are examples. Comparison of apparel fabrics for thickness should take place under conditions simulating wear and a pressure of 1PSI has been suggested (3).

Thickness values of the test fabrics at essentially "zero" load (0.53 lbs/in²) and at approximately 1PSI are shown in Table III. Using the thickness values for the delaminated foam the unbroken straight line shown in Figure 1 was obtained. The broken line in Figure 1 represents typical data (1) for wool blankets and comparing the two lines indicates that foam is less dense than a wool blanket even at a pressure of 1PSI. Laminated knit cotton fabrics are similar to wool blankets in thickness while wool laminates are less dense. The two points at the bottom of Figure 1 show that conventional

TABLE VII
Actual And Calculated Air Permeability
(Bulky Wool Half Cardigan)

	Air Permeability	
	FT³/FT²/min. at 0.5" Water Pressure Sample 3A	Sample 3B
Fabric only, delaminated.....	360	565
Foam only, delaminated.....	532	439
Laminated structure, actual.....	290	360
Laminated structure, calculated from Equation 8	218	247

TABLE VIII
Compressional Resiliency

Fabric	Compressional Resiliency %	
	Fabric Only	Lam. Fabric
Foam Only	—	44
Bulky Cotton Half Cardigan 1A.....	40	44
Bulky Cotton Half Cardigan 1C.....	43	46
Bulky Wool Half Cardigan 3A.....	52	48
Bulky Wool Half Cardigan 3B.....	52	48
Wool Blankets Average (Schiefer).....	50	—

TABLE IX
The Force Necessary To Delaminate Cotton Bulky
Knit Half Cardigan

	Length Grams	Width Grams
1. After lamination	560	500
2. After washing once	653	613
3. After washing twice	466	533
4. After washing three times.....	490	520
5. After drycleaning once	620	600
6. After drycleaning twice	473	456
7. After drycleaning three times.....	500	473
8. After steam pressing	440	460
SET 12 pt Girder: Cotton Knit Half Cardigan		
1. After lamination	486	495
2. After washing once	490	406
3. After washing twice	463	370
4. After washing three times.....	483	426
5. After drycleaning once	463	370
6. After drycleaning twice	606	520
7. After drycleaning three times.....	540	503
8. After steam pressing	433	540

TABLE X
The Water Retained By Foam And Fabric

Samples	Water Content (%)	
	Not Laminated	Laminated
Foam only	31	—
Cotton bulky half cardigan.....	81	67
Cotton half cardigan.....	80	70
Wool bulky half cardigan.....	67	39
Orlon-wool jersey	113	65
Cotton sateen	60	46
Cotton bulky half cardigan, cotton treated with water repellent (heavy metal soap).....	—	56
Cotton bulky half cardigan, cotton and foam treated with silicone.....	—	30

unlaminated fabrics are much more dense than the laminated materials.

The excellent insulating properties of laminated fabrics, as suggested by their thickness, have been generally substantiated in use but in some cases coats made from thin jersey laminates, lined with a thin fab-

ric have been sold enthusiastically, if unrealistically, as suitable for winter wear in the northern part of our country.

Air Permeability — Apparel fabrics should transfer water vapor or breathe. Pierce (5) demonstrated that fabrics composed of hydrophillic fibers

transfer water vapor even when the weave is extremely tight but in fabrics consisting of hydrophobic fibers the water vapor will migrate through the fabric interstices only. Fourt and Harris (4) demonstrated that materials of low density generally have high air permeability and good water vapor transfer. Since polyurethane foam is a hydrophobic material, it is of interest to determine whether its air permeability is great enough to permit adequate water vapor transfer.

The range of air permeability values can be very broad as shown in Table IV for some typical fabrics (6), and in Table V for the laminated fabrics. While the data in Table IV are "reasonable" those in Table V are puzzling because of the very high air permeability of some of the laminated materials. One would expect that the air permeability of a laminate should be at least as low as that of its most impermeable portion, specifically lower than 59, the value for the foam alone. The explanation, however, lies in the large increase in air permeability of the foam as a result of lamination, as shown in Table VI.

Examination of foam delaminated from fabric suggests that the increase in air permeability is a result of enlargement of the "pores" in the foam. This hypothesis is upheld by Poiseuille's equation:

$$V = \frac{\pi (P_1 - P_2) r^4}{8 \eta L}$$

Where "V" is the volume of gas flowing through a capillary in unit time; the difference in pressure between the inlet and outlet side of the capillary is $P_1 - P_2$; "r" is the radius of the capillary; "η" is the viscosity of the gas; and "L" is the length of the capillary. Since the radius is raised to the fourth power a small change in diameter will result in a very large change in volume of gas flowing through the pore.

The wool bulky knit fabrics were delaminated from the foam and air permeability values of foam and fabric separately determined. With these data it is possible to test the hypothesis that fabric and foam act as resistances placed in series, analogous to electrical circuits.

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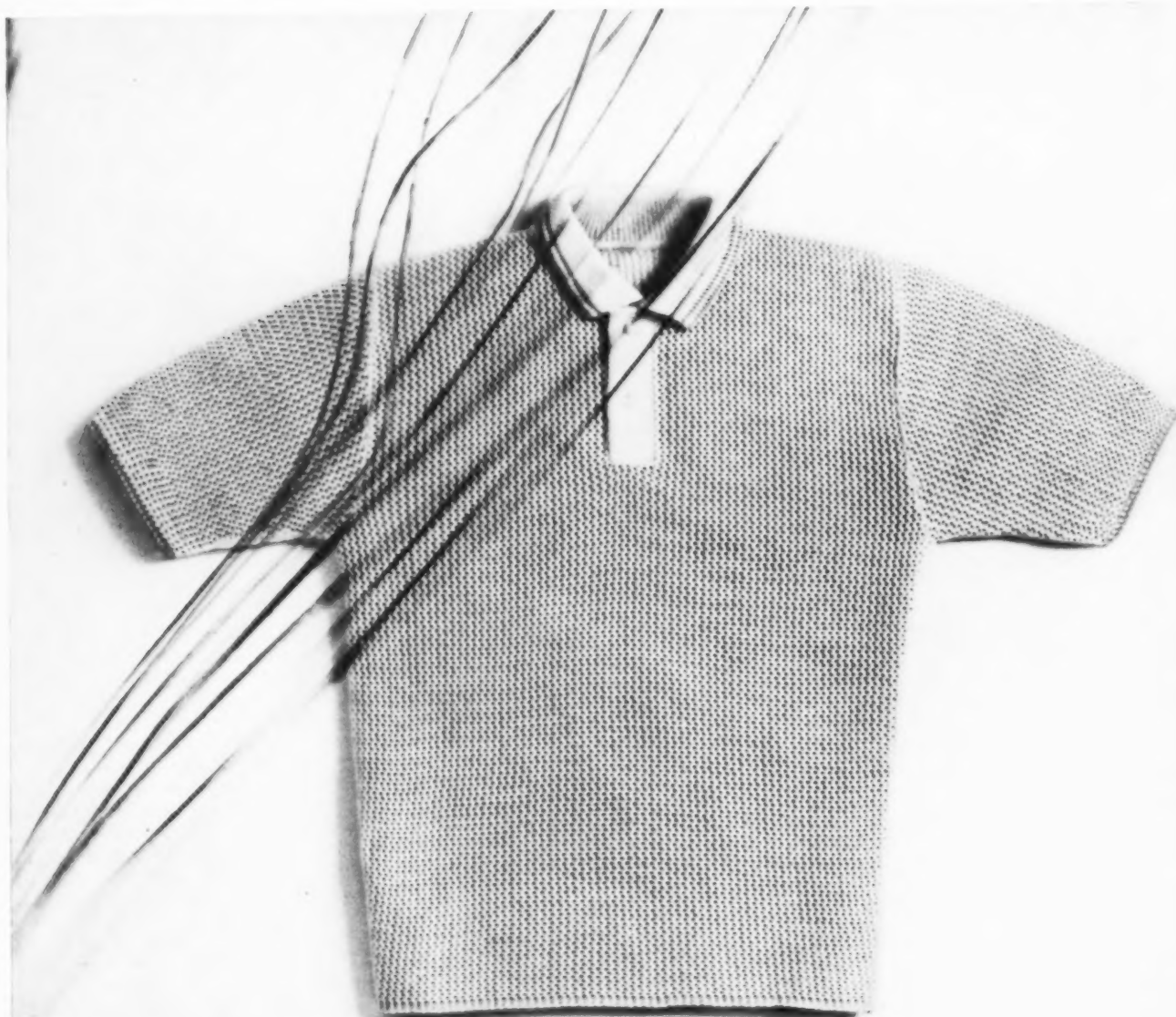
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If the reciprocal of air permeability represents resistance then:

$$\frac{1}{P_{\text{fabric}}} + \frac{1}{P_{\text{foam}}} = \frac{1}{P_{\text{laminated}}}$$

Where P is the air permeability.

Calculated values of air permeability of the laminated structure were obtained with the above equation, and are compared to the actual values as shown in Table VII. The former are lower than the latter suggesting that turbulence of the air at the surfaces of these materials decreases the air permeability; the laminated structure has two surfaces while the foam and fabric separately represent a total of 4 surfaces.

The air permeability of knitted laminated fabrics is obviously large enough to permit transfer of water vapor. Is it so high that thermal insulation is impaired? It is known that thickness is much more important than air permeability for thermal insulation, even at high wind velocities; at low temperatures air permeability becomes even less important.

Compressional Resiliency — Although thickness values given in Table III demonstrate that the foam is easily compressible, published data (8) (9) (10) indicate that polyester urethane foam recovers rapidly from compression. Is the laminated structure equally good?

Compression and recovery curves were obtained by the use of the Instron tester adapted for this purpose, the total load being 2 PSI. The actual recovery in thickness was practically immediate and complete. While the recovery in thickness is one indication of resiliency, a more satisfactory measure is that obtained from the ratio of work recovered to work expended in compression and is known as "compressional resiliency." This has been found to be a reliable indication of the recovery properties of textile materials.

The compressional resiliency of wool blankets was found to average about 50 per cent by Schiefer (1). When laminated the compressional resiliency of cotton is increased and wool decreased so that both are close to the values for wool blankets, as shown in Table VIII.

Strength and Abrasion Resistance — A strip of foam one inch wide and 0.1 inches thick

has a breaking strength of 2.5-3.0 lbs., but this very low value is compensated for by lamination to a fabric. The same comment can be made regarding tear strength. It should further be explained that lamination to yarns of the fabric does not immobilize the yarns of the fabric and cause a decrease in tear strength as occurs in some coated fabrics (Platt, 7).

Abrasion resistance was not measured but experience of the past few years has shown that in general the foam improves the durability of the fabric. The mechanism may be similar to the effect of a rug underlay which distributes the abrasive force over a wide area, thus decreasing the force per unit area. In one respect the foam can be detrimental; at cuffs or other folds, the fabric portion is placed under tension, stretched, and made thinner, thereby decreasing its resistance to abrasion. Garment designers recognize this problem and take the proper precautions.

Delamination — Mention was already made of poor bond strength resulting from excessive amounts of oils and finishes and from smooth fabric surfaces. On the other hand a very strong bond may imply excessive heat during laminating and consequently very thin foam. In the case of adhesive lamination a very strong bond may cause stiff fabric.

While it is not difficult usually to separate foam from fabric and to judge qualitatively whether or not the bond strength is commercially acceptable, we have developed a simple quantitative test which has proved useful.

A strip one inch wide and eight inches long is cut from the laminate. About two inches are delaminated carefully and fabric and foam are clamped into the opposite jaws of a suitable tensile testing device. Three tests are made on each sample and the average value obtained.

The lack of customer complaints has made it difficult to arrive at any definite minimum values of acceptability by the above delamination test, but it was found that about 500 grams is a value which is readily achieved in practice. This test is not only useful on new materials, but is also helpful for

evaluating changes which may take place in washing or dry cleaning shown in Table IX. Washing and dry cleaning weaken the bond slightly, but except for one test the bond was sufficiently strong to be acceptable, by our standards.

Sometimes the foam tears instead of pulling away from the fabric. This can be explained by the fact that a one inch strip of foam has a strength of only 700-800 grams after laminating. The tearing of the foam is in itself useful information for it suggests poor control during laminating.

Absorption of Water — Fear is sometimes expressed that the foam, being a sponge-like material, would become water logged in a heavy rain or that in laundering it would be very heavy and difficult to handle. Actually the foam is inherently water repellent and hydrophobic. The pores or capillaries are irregular in size, and the wicking is poor. The foam does not absorb water except with the aid of mechanical action. When treated for water repellency the laminated fabrics make very acceptable raincoats, and even yachtsmen have found that trousers made from laminated cotton fabrics are superior to unlaminated material. The trousers do not wet readily, and if they do get wet they are not as uncomfortable as unlaminated materials. Possibly this can be attributed to the extra thickness acting as a thermal barrier against evaporative cooling.

In order to obtain some quantitative data concerning the water absorption of laminated fabrics a simple test was performed in which the samples were vigorously shaken in distilled water for three minutes. The material was placed between two blotters, and passed through squeeze rollers. While this test was not severe enough to give thorough wetting of the sample it did indicate the combined effect of rate of wetting, the amount of water held and the amount that is readily removed by squeezing. Comparative results given in Table X show that the foam holds (after squeezing) less water than the textile materials. The wool samples were lower in absorption than one might expect because of the presence of spinning oils. Silicone treatment ef-

fectively decreased the water content.

Summary — A group of knitted and woven fabrics were flame laminated to polyester urethane foam and compared to conventional textile fabrics. The chemistry of foam was discussed. The results can be briefly summarized as follows:

(Continued on Page 23)

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1. Bonding during flame lamination probably occurs by surface fibers of the fabric being embedded in the foam.

2. Foam stabilizes stretchy fabrics and the fabric compensates for the low tensile strength and poor abrasion resistance of the foam.

3. Foam does not shrink during laundering but the laminated material will shrink if the fabric is not dimensionally stable.

4. Laminated materials are stable to dry cleaning.

5. Foam and textile materials of the same thickness are identical in thermal insulation characteristics. Since foam is generally thicker than most apparel fabrics its contribution to insulation is greater than the fabric, even when measure in a compressed state.

6. Laminated wool or cotton fabrics are similar to wool blankets in density and compressional resiliency.

7. Foam is modified by flame lamination so that its flexibility and air permeability are increased. Laminated fabrics breathe.

8. A quantitative test for mea-

suring the bond strength between foam and fabric is described. Washing and dry cleaning slightly weakens the bond.

9. Water repellency and water absorption of laminated fabrics are comparable to conventional fabrics.

Group Suggesting Foam Standards For Laminators

A committee of urethane foam producers has announced tentative recommendations on a guide for textile laminators. The committee, which is part of the Society of the Plastics Industry cellular plastics division and under the chairmanship of John Gulick, Nopco Chemical Company, is submitting the following recommendations for alterations and approval by the industry:

1. Cell count—a minimum of 45 cells per lineal inch is required. This is determined by counting the cells in three different locations using a pick glass or any magnifier with a diver-

2. Dimensional tolerances — (in a relaxed state), in length, no minus tolerance is allowed; in width, minus zero plus one and a half inches; in thickness, plus or minus .007 of an inch up to one-eighth, and over one-eighth, plus or minus .010 of an inch.

3. Methods of measurement—Length is to be determined after rewinding on a standard slack rewinding machine. Width measurement can be taken at various points on the rewind roll. (Standard steel tape should be used.) Thickness measurement is to be taken at various points during rewinding, using an iron spring gauge with a minimum one-inch aluminum foot.

4. Imperfections are defined as follows: A hole is any void three-sixteenths of an inch and over. A seam is the point at which two pieces of foam are joined together. A striation is a cluster of cells larger than average cell size, longer than four inches and wider than one inch.

The number of allowable imperfections is ten for each 100 yards.

5. Color — Foam has the tendency to change color but this does not affect its physical properties or its performance. Unless otherwise specified, the color shall be optional with the manufacturer.

Laminates Seen As Outerwear Staple

Foam is here to stay in the outerwear industry, but continuing progress and vigilance will be needed to maintain its rate of growth, Werner H. Norman, director of sales, textile division of General Foam Corporation, told the National Outerwear and Sportswear Association Convention.

"Where laminates were at first welcomed only in lower-priced lines, a steady upgrading has been taking place so that foam now has an accepted place at every level of the industry," he said. "We must continue to stress foam quality and to be alert to the importance of proper application of the product. Foam must be tailored to fabric and fabric must be tailored to foam."

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Spring Lines—Men's & Boys'

Natural Fibers Favored At New England MAC Market

By EDWIN K. LANGILLE

BOSTON, Mass.—A few of the knitwear firms participating in the Men's Apparel Club of New England showing at the Parker House October 15-19 had a complete spring line on hand but nearly all had a representative selection of their new 1962 styles, mostly in sportswear most likely to interest the cruise market.

Several knitwear houses have readied new golf shirt promotions. Natural fibers have been favored in the light sweater offerings and there was a good deal of variety in the types of synthetics used for spring shirts. There was also great variety in the number of shades offered with some collections including as many as 24. Most conspicuous was the extensive application of tones of orange and ginger and the number of new blue shades, often three of four variations in a single collection. Noteworthy stylewise was a trend toward more buttons and a higher neck on lightweight cardigans.

Half-belt, full belt and double breasted wool coat sweaters were offered by Sedgewick Sportswear, and representatives of that firm said that after a big fall season, sales continue strong in urban areas. One half-belt style, in this group utilized the round and pointed West Point type collar and seven button high close. The collar, the inch and one-half wide border of fine gauge chevron stitching, and the button trimmed belt at the back, were in contrasting colors in combination of black and orange, and the reverse and also purple and black and black and olive.

Fully belted and double breasted sweaters, made up in novel stitch patterns, in medium and heavy bulkies, were in solid shades of black, white, blue, olive and amber, and were styled with deep, shirt-type collars. Belting was about two and one-half inches wide and fitted with buckles while double breasted presentations had two rows of buttons set about four inches apart down the front.

Brushed Orlon and also a blend of lamb's wool, mohair and Orlon, mixed 50-25-25, were used for a selection of Sedgewick pullovers. The brushed Orlons had a deep all-over chevron pattern with green, blue, orange or rust alternating with white and

also green or blue alternating with black. Mohair sweaters had black and white striping, contrasting with the basic color of the sweater as trim on cuffs, hem and V-neck.

For spring, Sedgewick was featuring stripes and solids in Orlon Sayelle short sleeved shirts designed with open fronts or as placket pullovers. These came in two-color striping or in solids with contrasting color on the placket. Plackets were styled either with the split opening and single link tie set high or with the conventional three-button trim.

Three new spring promotions planned by Hugby Knitting Mills are said by Jack Charrette, representing the line, to have already had a fine reception here. One is a set of three models of Paul Hahn blast shirts for golfers, another is a new bongo fabric of Arnel and cotton, and the third is a group of shirts of multi-colored surf-board stripes matching boys' clam diggers.

Two-ply cotton mesh with 2x2 ribbed raglan sleeves have been used for the golf shirts. The inside of the collar is taped and a vented split tail, long in front and short in back, has been used for these garments available in 12 colors, including tiger, sand, and a new variety of pastels. The Paul Hahn pointed golf clubs symbol appears on all three models, embroidered in three colors.

Wide chevron stitching is used on wide fashioned collars to contrast with the mesh stitch is the body of the shirt. One model has a breast pocket and the other two styles, one for men, one for women do not. A company sales bulletin states that these shirts are out-selling other short sleeve shirts two to one and that current sales equal any three of this firm's other sports shirts combined.

The new Arnel and cotton fabric consists of white threads

mingled with olive, blue, gold, black, green, orange, or lime tones. This has been styled in a short sleeved, wide collar shirt and also a villager with a three metal button trim on the placket and cuffed breast pocket.

Rugby's surfboard stripes about one-quarter inch wide extending vertically combine olive, white, navy and orange; navy, white, green and sand and also white, sand and two tones of blue. These are offered in two styles, one a three-quarter sleeve boat neck with a stripe two inches wide of solid color extending down the front; the other, a wedge placket insert with Continental collar in contrasting color set in a square frame of white. The striping is used on the body for both styles.

Puritan Sportswear, notable users of Ban-Lon, has an extensive new collection of new spring styles made up in heavier gauges of this fiber offered in a range of 24 colors. Of these, a representative of the firm here, said that ginger was very strong and that other local favorites are sage, mist and apple greens and also blues. He also said that a mango tone is scheduled to be featured later in the season.

One popular styling is an eight button, full-fashioned short sleeved sweater-shirt in an oat tone. The fashioned collar and either side of the border is trimmed with hairlining in a contrast color also used to trim button tabs on two low-set pockets.

This fabric is also used for a new Bob Cummings shirt offered in ten colors. This shirt had a wedge placket and wide flare California Riviera collar and mock breast pocket with three-quarter inch trim of ribbing. Tab fastens are used as trim on the placket and also on the pocket and the short sleeves are cuffed. This firm also uses Ban-Lon for a group of three-button placket, fashion collar shirts which have a body design of horizontal striping.

In Creslan, Puritan offered a conventional three-button placket pullover, which had a boucle effect and was offered in ten colors in this one style. Another synthetic used by Puritan for

LINE HIGHLIGHTS

- Fibers: Natural, synthetic and blends.
- Colors: Blues, greens, orange, rust, ginger sand, tiger, black, white and pastels.
- Surface interest: Chevron stitch constructions, brushed fabrics, trims and borders.
- Styles: Predominance of cardigans, belted and double breasted coat sweaters, West Point and shirt collars, higher necks on lightweight cardigans, more buttons.

spring is a new blend of two types of Orlon which gives garments an alpaca feel and appearance. This, too, was made up in ten shades and one novel cardigan style in this group had a border of embossed twisted cable that created a framing panel. For other cardigans in this set, borders consisted of piping in contrasting tones.

In specially treated lamb's wool, offered under the trade name Aquaknit, Puritan had two new style cardigans, one, a seven button model with a vest-like border finish, the other, a six holer with wide ribbed button-band. Three pullover styles of this material included a sleeveless, a vest and a V-neck with long sleeves.

Bob Podwill, of Barclay Knitwear, due to open its spring line later this month, said repeat orders were very good in this area for light bulky crew necks, and V-neck pullovers and also coat sweaters made up in 75 per cent wool, 25 per cent mohair. These are offered in solids of blue, olive, bronze, charcoal, champagne and terra cotta.

Considerable new styling has been designed in a new fleecelined lightweight fabric of combed cotton by Akom Knitwear. Both half and three-quarter sleeves are featured with most of the styling in solids of wheat, a new tone blue, white and black. Stays have been inserted in the shirt type collar style, snugly ribbed at the waist; and with a high West Point collar, an all-the-way zipper was

(Continued on Page 27)



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applied. A third style consisted of a three-quarter sleeve boat-neck vented at the sides. For still another style, stripes an inch and one-half wide in two contrasting colors created a deep V effect. Two-color striping was also used on the cuff and hem.

Akom's Ban-Lon styles were offered in 12 different colors and the firm's representative here, Bob Steinberg, said that cognac, wheat, orange, pecan, sage and blue tones were especially popular. One style said to be particularly popular had a conventional two-button placket and short welted sleeves cuffed with ribbing. Stripes, about an eighth inch wide, in two contrasting colors were used as trim on the collar edge and on the cuffs.

Kandahar Sportswear's new spring colors include salmon, turquoise, lime, sand, sea foam blue, a powder blue and a light sage. New light sweaters in these tones have been made up in links and links stitching of Ban-Lon, Orlon Sayelle and Orlon.

There are other novelty belt treatments — including a low-slung crossed-over, belt for the low-rise look currently admired by young wearers.

New Style Trunks

Swim Jeans — Hawaiian-length elasticized trunks — with conspicuous patch pockets and contrast stitching — are a new look which is said to be selling well. They are matchmated in the women's line. In the men's line, colors are Grecian blue, bright navy, dark olive and coffee plus.

A luxury note in the elasticized line is a cabana set with Hawaiian-length trunks in black Lastex velvet of nylon and spandex, topped by a shirt of pure silk scarf print — the black-and-white paisley pattern in geometrically spaced sections on a background of white. The set is priced at \$39.95, in black and white only.

Terry cloth, used with woven prints, is important again for next year. In the new line, colored terry — a much-wanted element this past season — assumes a greater importance.

Colored terry appears, not only as a lining or trim, but in all-terry jackets and also in terry jackets which have woven print collars. A variety of tastes may be served in a single print — as, in one instance, a yellow terry

with an orange print for the newer bright look; a soft green with predominantly green print for the more traditional look, and soft tones on white for a middle-ground choice.

A good-looking separate top for a beach costume, at \$7.95, is a button-front, short-sleeved jacket in vertical multi-color stripe, with the striping applied horizontally to make two lower patch pockets. Solid terry frames the V-neck and edges front and bottom of the jacket. A red combination and a pottery blue combination, each using four colors and white, are offered.

Wisconsin MAC Spring Show Does Good Business; Hot Colors Sought

By BENN OLLMAN

MILWAUKEE, Wisc.—The Wisconsin MAC's spring show, October 29-31, at the Schroeder Hotel pulled improved traffic. Sales representatives showing lines here reported writing a better volume of business than they did at the corresponding show last year. While the bulk of the orders were for spring merchandise, dealers replenished current stocks and balanced their holiday inventories as well.

Recent back-to-school promotions helped clean up dealer stocks all through the territory, reports claim. As a result, sweater inventories are lean and dealers made healthy commitments at this show for holiday and spring goods.

Interest was keen in ski sweaters and blazer stripes. Color, particularly the hot hues, held the attention of buyers. Laminated jackets for spring wear were also high on the must list for merchants shopping here.

Dealers, according to observations, are optimistic about business possibilities for the holiday season ahead. Spring prospects are also bright, field reports show.

Retail levels this fall have been a little under expectations. Most oft-heard comment at the show: "With a real break in the weather, this could have been a terrific fall season."

William Zacher, McGregor Sportswear, claimed his bookings were ahead of last year. Most of his order writing was for spring merchandise. Particularly good buyer interest was evidenced in

Cabana sets appear in a number of tasteful combinations in the Jantzen line. While not outstanding in this area, the cabana set enjoys a good demand in certain sections of the country. The Jantzen sets are priced as a unit at a single price and scheduled for Christmas delivery. Cotton is used throughout the group.

The cabana group presents considerable variety. Included are a woodcut print, one with the harlequin diamond look, and a foulard print — all at \$10.95. A set with chambray look, in solid chambray piped with striped chambray, has a side-zip

trunk, reversible from a striped side to a plain side. Colors are hot orange, light blue, and charcoal — all with a narrow white stripe, reversing to solid.

While boxers are most usual, there are also zip fits this year in the cabana line.

An ombre stripe poplin has flat-front boxers with half-belt and International Sports Club buckle at the front. It comes in a pottery blue combination, with dark olive and blue grotto; also in a sunbronze, with apple green and coffee. Another set with the half-belt and buckle is a jacquard stripe in mandarin orange, with blue grotto and dark olive.

Robert Bruce space. Dealers claimed they had underestimated the consumer demand for cardigans earlier in the year. Result: plenty of cardigans ordered at this show. Best selling colors were whites, blues, emerald greens and the tiger shades.

Knit shirts for spring delivery, according to Danny Marcus, were doing exceptionally well. The hot colors made up a large share of the orders. Solid colors with placket collars continued strong.

Jerry Wallace, Milwaukee Knit Products, reported a hefty volume of immediate buying at the show.

"We always get a lot of fill-in business at this particular show because we are situated right here in Milwaukee," he explained. "Everyone was cautious in opening up for fall. A lot of our dealers were too cautious, as it turned out. So now there are plenty of stores in need of fill-ins and holiday merchandise."

Interest was strong in Milwaukee Knit Products' offerings of three-quarter sleeve boat neck sweaters with poncho bottoms.

Ski sweaters played a dominating role in the spring line, along with brushed wool, jacquard pattern numbers, said Mr. Wallace. Blazer stripes were among the top sellers. The classic cardigan numbers, of course, were also major items.

Campus Sweater & Sportswear Co.'s Arthur Goldberg reported business about 10 per cent above last year. Dealers were ordering freely, across the board, he said. His accounts were ordering a lot of the high shade sweaters and boat neck knit shirts were very good.



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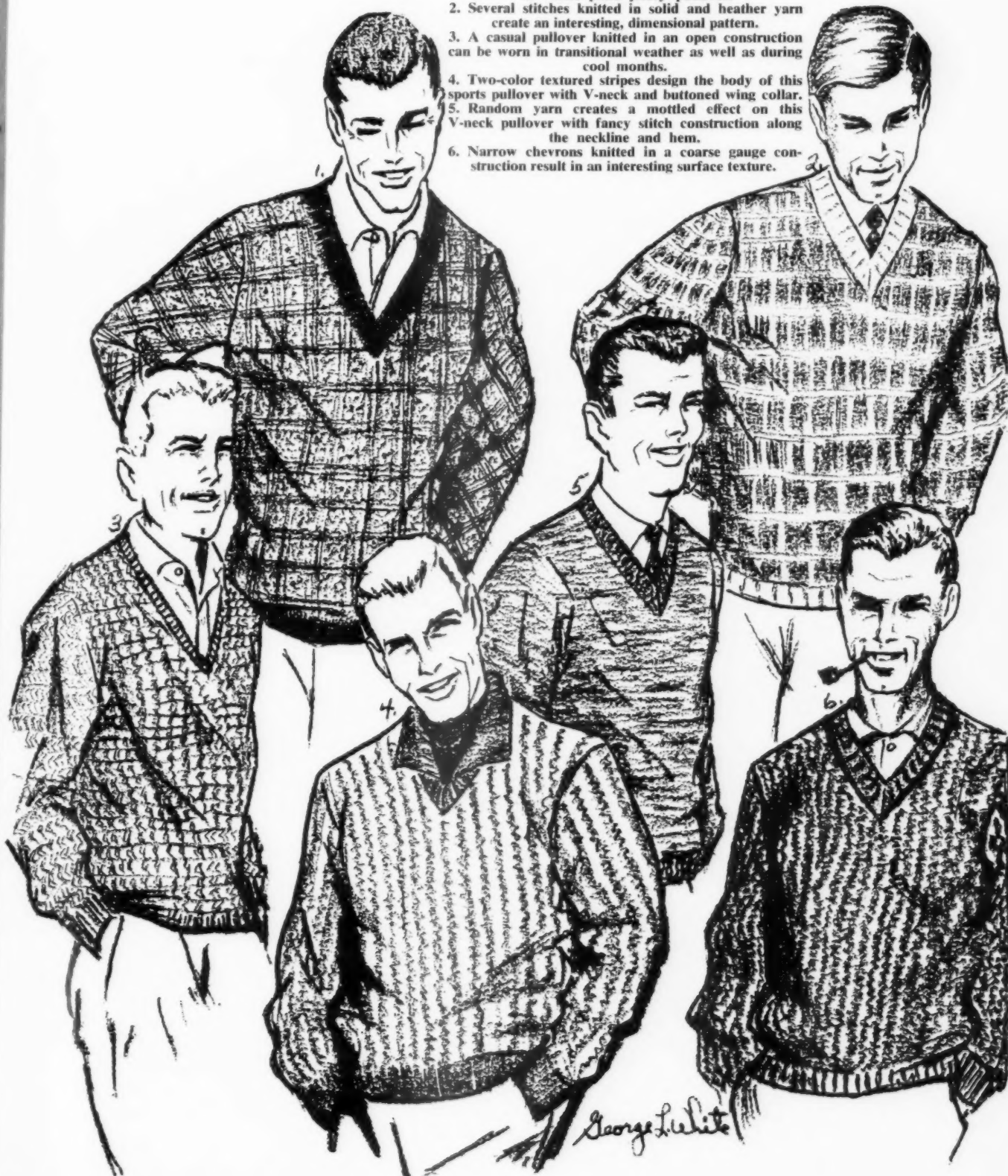
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Knitwear Ideas**Classic V-Necks Are Knitted In Interesting New Textures**

1. Black outlines V-neck, cuffs and hem of a Prince of Wales plaid jersey pullover.
2. Several stitches knitted in solid and heather yarn create an interesting, dimensional pattern.
3. A casual pullover knitted in an open construction can be worn in transitional weather as well as during cool months.
4. Two-color textured stripes design the body of this sports pullover with V-neck and buttoned wing collar.
5. Random yarn creates a mottled effect on this V-neck pullover with fancy stitch construction along the neckline and hem.
6. Narrow chevrons knitted in a coarse gauge construction result in an interesting surface texture.



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1. Wide casual jac color and

2. Knitted construction pocket, ce with an

3. Tailored knit jersey stripes. Th pockets

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Knitwear Ideas

Jacket-Sweaters Make Versatile Wardrobe Components

1. Wide wale ribbing characterizes a casual jacket-sweater ribbed in contrasting color and detailed with leather buttons.

2. Knitted in a very coarse gauge rib construction is this model whose collar, pocket, center panel and hem are set off with an even bulkier chevron stitch.

3. Tailored like any sport jacket is this knit jersey model in narrow horizontal stripes. The tailor-made collar borders and pockets are trimmed in plain ribbing.

4. This round neck cardigan jacket has a straight buttoned front and a back belt and is knitted in a check pattern.

5. Styled identically to the above sport jacket, this model is patterned in checked jersey.





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Men's & Boys'**High Style Cottons
Sell In Alabama**

By KATHLEEN WARREN

BIRMINGHAM, Ala.—Sales were jumping in knitted outerwear at the Bamac Spring and Holiday Showing, November 5-7, as highly styled red, white and blue cotton knit coordinates, action lisle-knit shirts, open-weave mesh shirts (Raschel knit) and a bright new look in knit swimwear color and design emerged top-favorites in all merchandise exhibited at the show.

An attendance which exceeded last year's comparable market by a good 10 to 15 per cent, bought far ahead, and in depth, in appreciation of the trend towards fashion in men's knitted outerwear.

"High fashion in women's knitted ready to wear has made knit goods for them a by-word in the industry," declared an exhibitor at the market, "and to my way of thinking, it's high time that high-fashion hits the men's knitted outerwear field!"

Lively sales in high shades of lavender, orange, multi-stripes, in Helanca knit swimwear, with square-legs outselling the boxer-type two-to-one, (\$2.95 to \$3.95 retailers) with high-style two-ply combed lisle basic cotton knits with action sleeves, and with the new nautical knit coordinates in groupings of four or more.

Jack Mann, secretary-treasurer of Bamac, found high shades of orange, green, lavender, etc. important in knit Ban-Lons for Spring, (MacPerth Sportswear), priced to retail for from \$3.95 to \$5.95.

The MacPerth Sportswear exhibitor also had excellent response to knit-cotton shirts, high shades important here too, at \$2.95 to \$4.95 retail.

"Swimwear has gone to an extreme as far as coloring and styling are concerned," Mr. Mann declared, reporting a strong consumer demand for elasticized knits in wild colors, square-leg design. (\$2.95 and \$3.95 retailers).

Lively sales in basic cotton knits kept Bill Wall, exhibiting for TruVal Shirt Company,

hopping during the entire show. Going exceptionally well for him, he said, was a two-ply, combed lisle, with an action sleeve.

"This shirt has an extended tail, so that it will not pull out of the trousers," the exhibitor pointed out. "Seams are reinforced from the shoulders up. The garment is extra long, and has action raglan sleeves. These sleeves are ribbed, in contrast to the two-ply bird's eye weave of the body of the garment."

Priced to retail at four dollars, this shirt is offered by TruVal in 10 colors, and is marked by a distinctive embroidered quality emblem on the pocket. According to the spokesman, 50 per cent of his volume done at the Birmingham Bamac Show, was in this one shirt design, 25 per cent was furnished by Ban-Lons and the remaining 25 per cent by fancy, coordinated cotton kits.

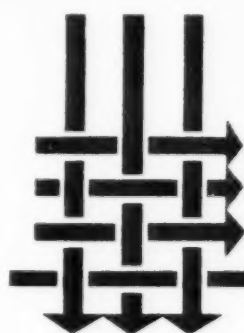
The four nautical-look coordinates, as shown by Mr. Wall, made a big hit with merchants attending the show. Business was active in red, white, and blue cotton bird's eye knit pull-overs, three-quarter sleeves,

vented sides, boat necks, at three dollar retail. Companion-piece, a terry-pullover, high V-collar, featuring contrasting red, white and blue knit inserts at neckline, with poncho-pleated tail, also sold heavily, at three dollars retail.

"Well-favored were our other two items in the knit-nautical-look," said Mr. Wall, pointing out a red, white, and blue bird's eye cotton knit blazer, with washable metallic buttons, a four dollar retailer, and a terry cardigan, edged with knit trim in nautical red, white and blue, short sleeves, lower pockets, gold buttons, also four dollars retail.

Mr. Wall found sales piling up during the entire show in nylon knit swim shorts, with red, white and blue knit inserts, at four dollars retail and in cotton knit red, white and blue boxer knit trunks, at four dollars.

Antron, which lends high luster and heavier count, is credited by George Buckley, showing for McGregor Sportswear, with stacking up record sales for him during the show.



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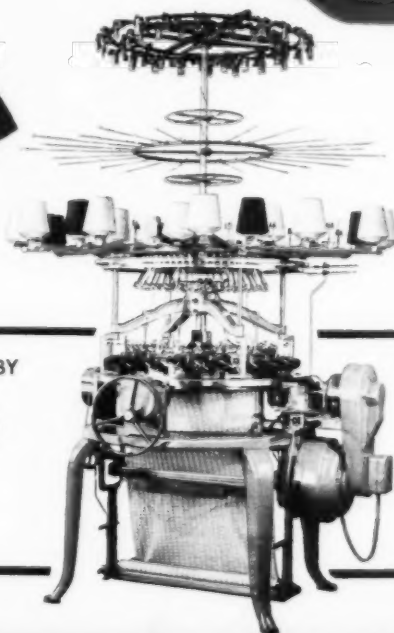
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Spring Lines**Textured Knit Shirts Promoted By Brown-Durrell**

BOSTON, Mass. — Brown-Durrell Company, now a subsidiary of Flagg-Utica Corporation, is planning a special promotion for a spring line of young men's knit polo shirts made from textured knits produced by the parent firm.

The line was opened to sales personnel simultaneously in Chicago, New York and Boston in mid-October, several weeks ahead of last year's schedule, and is said to have created much enthusiasm. By November 1, John Sweeney, head of the department, said sales were running well ahead of a year ago and many new accounts had been opened in larger stores previously outside the scope of a wholesale operation.

Five different types of plain stitch and textured knits have been used in the collection planned to retail at a \$1.98-\$2.98-\$3.98 level. The line goes very deep in color in new spring shades including Aztec blue, flame, emerald, summer gold, lime and a peacock blue, with a number of two tone contrasts. The size range represents an extension into an older group not included in other years.

For coordinated sales a line of ribbed socks has been introduced with two stripes at the top in contrasting colors matching polo shirt shades.

In the action group, a V-neck muscle shirt has been added. These are offered in white with a contrasting color down the arm opening and side and also on the ribbed-V. Also for sports, the ribbed wedge underarm insert has been used on a two-button placket shirt with short cuffed sleeves.

While most of the line is cotton, one style has been designed in Ban-Lon with a wide fashion collar, two-button plackets and short ribbed trimmed sleeves. This was offered in the five new solid shades with a white edging about the collar and on the cuffs.

Hitherto, this firm resorted more to color patterns for novel effects. This year, with a wider selection of fabrics available from Flagg-Utica mills, solids predominate with contrasting

colors used lightly as edging and more emphasis on contrasting stitching such as embossed stripes in panels and as collar trim, crepe fabrics and basket weave. The chevron design, knit in fine gauge, has also been used effectively for novelty.

However, the classic all-over, horizontal striping with new spring colors alternating with white has been used in two styles for the coming season. One is a high boatneck with three-quarter sleeves, on which stripes of one-eighth of an inch extend vertically on the sleeves contrasting with the body.

Rand Cites Trends In Knitted Shirts

CLEVELAND, Ohio — Although the knit shirt market remains most competitive, new trends in styling and fashions will continue to make men's shirts a highly marketable commodity, according to Leonard Rand, president of Ohio Knitting Mills, Inc.

Such trends as high styling, new colors, and a move toward coordinates, are but a few indications of the men's T-shirt and sweater field that should mean continued good sales for both the alert manufacturer and retail sales personnel.

Rand, commenting on current sales, noted that Orlon and Ban-Lon are continuing to maintain a great share of the men's market because they are competitive in price. Although cotton is being used along with wool, in many instances, "it is the synthetic shirt that has taken over in the industry," he commented.

The continental collar look; the gosset sleeve and drape shoulder are added features in men's T-shirts that have already made the garment the standard garb in the southern and western area, with the east to soon fall into that classification.

Rand noted that men's shirt collars are following the full range of colors employed in the ladies' line, and there is "a growing field for men's coordinates, paralleling to a vast extent the successful move in the ladies' field. For the present, the movement varies in the different sectors of the nation, but it is growing and may well become the basic trend of the future."

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Women's & Misses'**The Many Moods Of Lurex—From Sporty To Elegant**

Blending a classic V-neck slip-on silhouette with a fancy lace-textured knit results in unusual sweaters capable of leading many lives. Left top, linen and Zefran by Old Colony; left center, mohair and Lurex by Weber Knit.



Gold and silver Lurex accents an ensemble, left, on both solid and floral jacquard areas. The jacket, not shown, is solid to match the skirt. Patterned overblouse with boatneck and tiny cap sleeves has very slight body conscious lines. Greta Plattray for Cabot Knitwear.



Right, Cole Knit shapes a nearly weightless, 100 per cent gold and silver Lurex evening dress. The tie belt moves up or down for varied effects.



Diamond shapes alternate with flat jersey panels in Boepple's black Orlon and silver Lurex shift. Sleeves are minimally capped, neckline is relaxed and belt can be worn or not.

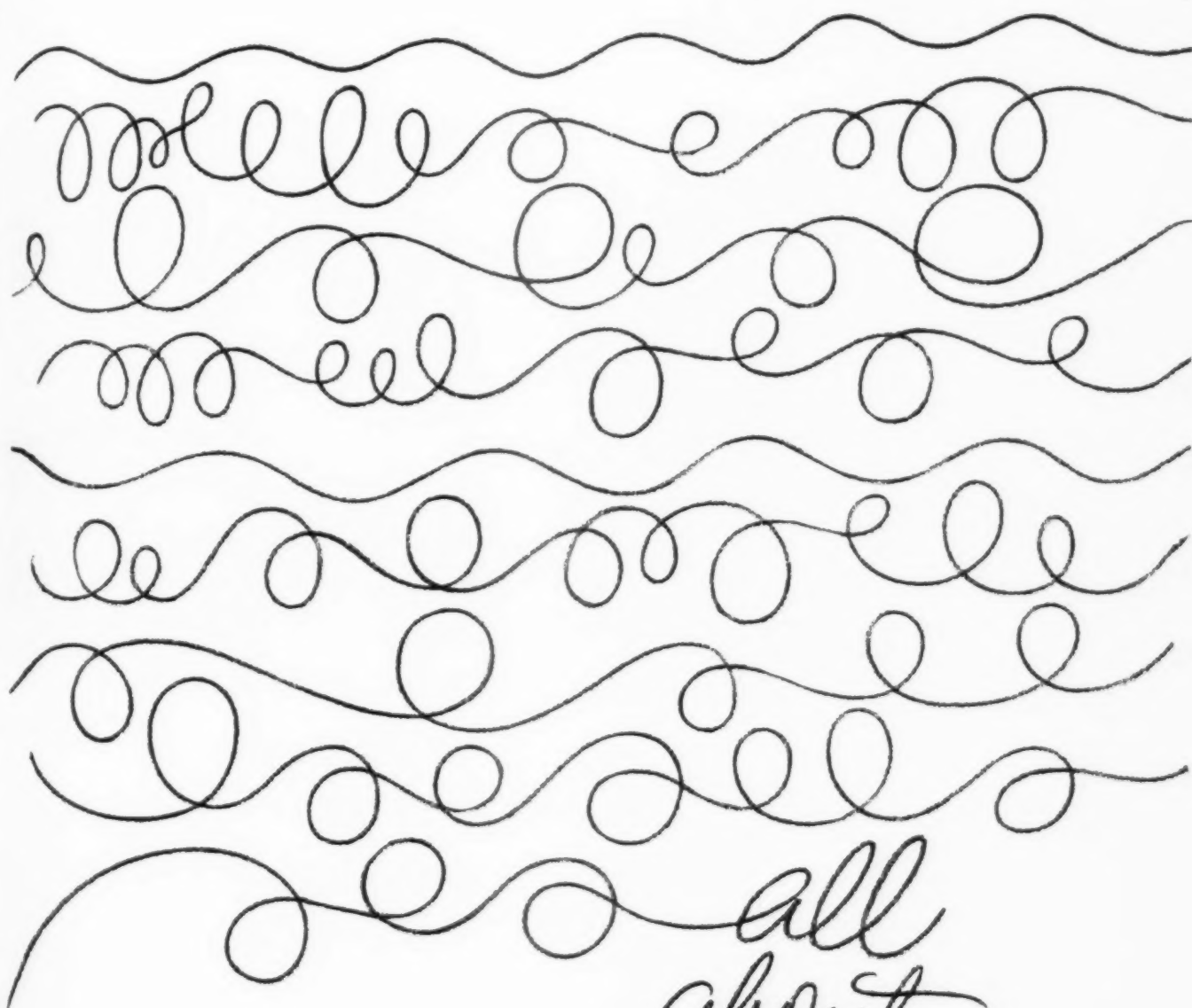


For surface interest, Darlene combines furry angora with glittery Lurex in a waist-length sweater, left. Above, wool and Lurex blend in Goldworm's sleeveless shift detailed with a rope belt that can be worn in several ways or not at all.



Cecil Chapman's short evening dress is knitted of 100 per cent gold Lurex. A centrally located pin creates flattering midriff gathers and sleeves are merely suggested.





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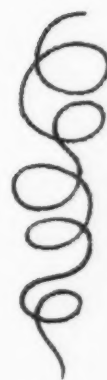
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Spring Lines—Women's And Misses'**Metallic Knits Score At Brisk West Coast Market Week**

By PEG HOPPIN MOOR

SAN FRANCISCO, Calif.—Knits continued to evidence their upward climb at the market week held here by the West Coast Salesmen's Association, September 17-19 at the Sheraton-Palace Hotel. All types of knits were in demand—flat double ones, boucles, jerseys, and sweaters of every kind. The number of offerings was larger than last year with more and more woven fabric firms adding knits to their collections.

Metallic fabrics and trims were a recurring theme at this holiday market. They were most popular with buyers when accompanied by simple styling which served to point up the beauty of the fabric.

In spite of the fact that the market was shortened a day by a holiday, attendance equaled that of a year ago and order writing was brisk. Sunday was particularly active when 1,284 buyers representing 695 stores registered as compared with 787 buyers and 433 stores on the comparable day last year.

At Bams Knits, sales manager Dave Solomon termed it a "sensational market." Sales, he said, were double those of the market last year while general business for the year was up 25-30 per cent over 1960.

A new style with Bams — a 30 inch sweater of Spungee Orlon, made in sizes 36-42, was in great demand. A collarless cardigan in a diamond pattern, it retails at around \$16.

The number one Bams seller for the year was continuing in its top spot. This is a Chanel-styled collared jacket of Orlon in a popcorn stitch, made to retail for \$12. Offered in 14 colors, the best selling shades are white, black, beige, Persian blue, and ming green.

Alfred Block of Garland Knitting Mills reported that he was completely sold up on his sweater line which breaks early. He made a number of observations about current trends. Fur blends in both single and double ply, bulkies in a ruggle spun type of knit similar to a shaker stitch, and Shetlands are all important, he observed. He noted that while the majority of buyers favored 23 to 25 inch lengths, the high fashion stores were asking for the shorter 19 inch sweater. Jacquards and intarsia patterns are well accepted, he said, while in

classics a move toward the old fashioned basic colors seems to be developing.

A fringe trimmed, cowl necked overblouse with gay, multi-colored stripes down the front was a popular design at Zado Goldenberg where Evan Goldenberg represented the firm. A running number in the fall line, the firm recently added the style in holiday colors of tan-black-lime-magenta and white-black-red gray. The design is made of wool to retail for \$12.95, sizes, small, medium and large.

Accessory department buyers were endorsing another Goldenberg sweater — this a smartly-simple collarless cardigan in white all-wool spun with a gold metallic thread. Coordinating pearl buttons trimmed in gold blended beautifully with the unusual fabric. Sized small, medium, and large, and running about 19 inches in length, the style retails for \$13.95.

Merchants, Mr. Goldenberg noted, were interested in Orlon Sayelle but only at promotional prices — sweaters retailing in the \$7.95-\$11.95 range. They don't, he observed, want a synthetic that will sell for over \$12 or \$13. Above that price, they would just as soon have wool, he stated.

Mr. Goldenberg termed it an active market, noting particularly the high attendance on Sunday.

The same story was repeated by Sam Ostroff of Redwood City

Knitting Mills. He reported that Sunday was the second biggest day he had ever had in any market and that this particular market was not customarily an important one for him.

A bat wingsleeved tuxedo sweater, offered in black or white with ribbon cord and silver trimming the front, and three-quarter cuffed sleeves was a leader with Mr. Ostroff. Selling retail for \$11.95, small, medium, large, extra large, it is made of Orlon knit in a fine rib. The design is an extension of a very popular Redwood City Knitting Mill style. Originally, it was offered as a simple all-year, any-age jacket, then the firm did it with a collar, and for holiday this year the jewel trim was added.

An Orlon bolero with yarn flowers having tiny pearl centers was also selling well for Mr. Ostroff. Styled with bat wing sleeves, it retails at \$8.95, small through extra large. It is offered in high colors but white and black are the leading sellers.

From his M. R. Fleischman line, Mr. Ostroff noted that jerseys are still selling and showing surprising strength. He pointed out that in one sportswear group, which offered both woven Dacron and jersey tops with no price differential, the Dacron had been withdrawn because the jersey was proving so popular.

Mr. Ostroff had some happy comments to make about his business in general. He reported that last year was the biggest one he had had in 13 years and that presently he was ahead of those figures a fact which pleased — and surprised — him greatly.

At Edith of California, Ed Baker termed the market good in view of the fact that it was

shorter than a year ago. He was registering success with a collection of knitted jackets of Acrilan and Orlon pile. Fully lined, a leading number of this group was offered in two wonderful prints — black palomino and brown calf.

Another popular pile design from Edith of California was a collarless bolero offered to the same two prints, palomino and calf, as well as in solid colors of red and white.

Owner of Edith of California, Leo Sundheimer reported that the firm's sportswear of a wool and cotton tweed mixture is still selling strongly as is a plaid group of cotton and rayon. Bright gay colors in interesting combination of the new spring shades are being endorsed.

Dramatic, smartly executed trims on textured wool dresses were finding favor at Snyder Brothers Knitting Mills according to Lionel Traube, Jr.

"Boucles," Mr. Traube reported, "seem to be coming back." A popular number with him was a scoop necked sheath with several three-dimensional satin flowers highlighting its understated styling. Self embroidered flowers with beaded petals trimmed a second popular number. Both retail at \$75.

Ribbon embroidery distinguished a third Synder Knit leader, this one selling in the stores for \$69. In each case, the number one color was the one in which the sample was made. In the first described design, this is black; the second one, blue; and the third, carmine red.

A group of wool double knits with the fabric imported from London was important at Lilli Ann Co. said Roy Samollow the representative. A San Francisco manufacturer, Lilli Ann recently added knits to its line after many years' success with its firm fabric coats and suits.

Black and white were artfully combined in a leading Lilli Ann style. A three piece costume, it featured a black slim skirt; white sleeveless top with two large black, asymmetrically placed buttons its only trim; and a Chanel-style jacket with loose,

(Continued on Page 45)

HIGHLIGHTS OF WOMEN'S LINES

- **Constructions:** flat and double knits, boucles, diamond pattern, fine rib, popcorn, shaker stitches, Acrilan and Orlon pile.
- **Patterns:** jacquards, intarsias, stripes.
- **Trims and Touches:** fringe, ribbon cord, metallic, yarn applique jewel trims.

- **Sweater Lengths:** 19 to 30 inches with emphasis on 23-25 inches.

- **Fibers:** Wool, Shetland, Orlon, Sayelle, Acrilan and Orlon pile fabric fur blends.

- **Colors:** Emphasis on basics. Black, white, brown, beige, Persian blue, Ming green, magenta.

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glove length sleeves. In sizes 8-18, the outfit wholesales at \$39.75.

A double knit lamé costume of 73 per cent wool 27 per cent metallic was finding favor at Nardis of Dallas with Milt Bronson as representative. With elegantly classic styling, the sleeveless sheath dress has a round bound neckline, an elasticized waist and self tie belt. It is topped by a short sleeved jacket in the Chanel mood. At \$59.95 retail, sizes 8-18, bronze (a light beige) is the best color.

Another good number at Nardis was a two piece double knit dress with lean lines. Fashion interest on the overblouse focuses on a wide self belt placed slightly below the natural waistline. Topping a slim skirt, the overblouse has short sleeves and a round, bound neck. Leading colors are pebble (beige), black, and watermelon with the style selling in the stores for \$35., sizes 8-18.

At \$29.95 retail, a third double knit by Nardis was also popular — this a basic, scoop necked sheath, sporting three-quarter, set-in sleeves, and an elasticized waist under a leather belt. Black is the number one color followed by red and soft blue.

A good style at Alison Ayres, reported Carol Kirschner, was a jersey collarless sheath with an elasticized waist and self belt topped by a mohair Chanel jacket. The outfit retails for \$25.95. Originally introduced in the fall, it is now being offered in spring colors of Tahiti green, peach, blue, and coral.

From Judy Wayne, a junior line, buyers were endorsing a metallic lace-weave wool which was fashioned into a smart two piece suit with a slim skirt, loose boxy jacket with three-quarter sleeves, self buttons and gold braid trim. Made in sizes 5-15, it wholesales at \$11.75.

Half and super size knits were being shown by Jimmy Thompson of the House of Bloom. A leading seller from this line was a basic collared shirtwaist dress of worsted knit Orlon. Made to retail at \$25, low pockets accented its lean lines.

From his Crest Originals Inc., line of misses sizes, Mr. Thompson reported that two styles — both fully lined wool jersey sheaths made to retail for \$25 — were leading numbers.

Spring Lines—Women's And Misses'

Light And Medium Bulky Predominate At Apparel Traveler Show In Boston

BOSTON, Mass. — Light-weight and medium bulky sweaters provided most of the activity at the New England Apparel Travelers' show held the first week of October at the Statler-Hilton. Cardigan styles frequently extended to hip length and there were numerous selections of the Chanel-type jacket. There was also great variety of collar styling in slipons and there appears to be a general trend toward neckline effects most often associated with coat sweaters.

Several firms offer mohair blends for the holidays and for jacket-blouse-skirt combinations novel presentations were offered of linen boucle, ribbon knits and fabrics in which metallic threads predominated.

For a soft, loop knit, waist length Chanel jacket, of 65 per cent mohair blended with 25 per cent wool and 10 per cent mohair, Solt Knitting Mills, of California, used a wide flare collar extending the width of the shoulders. Three-quarter inch of edging was applied on the rounded hem border and about the collar. This was made up in solid shades of bone, black and white and was also offered in pastels intermingled with white fibers.

Ed Russo, New York State and New England representative, for this California firm, and also Laszlo Imports and Lana Knitwear, said bookings were running heavy for a selection of flat knit dickies, imported from Austria. For wear with knit dresses, low-V neck slipons and cardigans, these pieces added a great many variations to any costume and buyers, Mr. Russo said, were inclined to stock a number of colors and styles. These dickies were of wool and came in one size only. Collar styling included double-strength crews, full turtles, and high rolls in solid shades of grape, coral, cocoa, mocha and beige, tones likely to match well.

Skirt and jacket coordinates in the Lana Knitwear collection, included styles in linen boucle and also one-piece dresses with matching Chanel jackets knit of 1/4 inch ribbon. The linen combinations were trimmed with

hand-crocheted buttons, also used to trim the borders and pocket tabs in red and blue on white. The ribbon creation was available in 27 different shades of solids. The one-piece dress was belted and had a scoop neck.

A 75-25 mohair-wool was used for a jacket-blouse coordinate by Irwill Knitwear. The blouse slipon had a loose, away from the neck crew and the jacket was styled with a notched, wide lapel collar. These brushed garments were offered in solids of white and black and also in new tones of melon, green, rose, blue and sand. These same shades were also applied to a selection of full-fashioned, fine gauge knit sweaters of Orlon Sayelle. The cardigan styles included a crew neck with raglan sleeves, trimmed with nine matching buttons and this Orlon fiber was also made up in short sleeve pullovers.

The Irwill line also had a wool cardigan screen printed with floral designs of blue, pink and orange on white. The affect was reminiscent of tapestry, and Sol Heid, representing the line, said that this was a forerunner of a collection of screen prints designed by prominent artists who have been commissioned for the assignment and will also include adaptations of famous paintings to be reproduced on knits in the spring line.

Mr. Heid also said that bookings have been running well for cardigans with all-over jacquard patterns combining various arrangements of blue, green and orange; blue, red, black and yellow and also pink, yellow, blue and green on white. These have been trimmed with six stamped metallic buttons and one-half inch of piping in solid tones.

All wool baby shaker cardigans for sizes 34 to 40, introduced for the fall season by Olympic Knitwear continue to sell well for the holidays, Frank Sherman said. Of the twelve solid shades offered, Mr. Sherman representing the line here, also said a dark brown, navy and beige were favored. These sweat-

ers, trimmed with seven metallic buttons, had a rounded narrow neckline.

Among the novelty pullovers, offered by Olympic, there was a bulky, all-wool pullover, full-fashioned and imported from Hong Kong. This was of hip length, and a trim consisting of vertical panels of twisted cable five inches deep was used on the turtle collar, cuffs and hem. This was available in solids of two shades of blue, two shades of green and also maize and a light beige as well as black and white.

Oscar Mulsky, of Euclid Knitwear, said that one of the outstanding holiday sellers in this firm's Dotty Mann line was a long, bulky Chanel-style jacket of Orlon. The body pattern of this garment is made up of vertical panels of a criss-cross stitch alternating with a chevron pattern. This coat had two patch pockets and double strength rick-racking was used as a border trim and at the top of the pockets. Long sleeves were used and colors in solids included beige, turquoise and magenta and also white and black.

Two novelty, eight button cardigans were also included in the holiday selections and were said by Mr. Mulsky also to be particularly favored here. These were of all wool. Borders and the rounded neck were not separated from the body of the garment but the overall patterns were especially impressive. For one, embossed oblong designs of orange, pink, turquoise, and lime on beige created a scatter effect; on another, a multi-color pattern was created by application of vertical striping of coffee, magenta, turquoise and green and by using blocks of these colors on the contrasting stripe shades.

Intarsia patterns were used for a lightweight cardigan selection manufactured by Venice Knitting Mills and included in that firm's Alice Kaye Originals. These jacquards were of wool and trimmed with seven pearl buttons. The intarsia trim extended down either side of the front and squared off at right angles at the hem creating the effect of narrow pockets. The decorations on the white sweater were in tones of beige, pale lemon, light blue, mint and raspberry.

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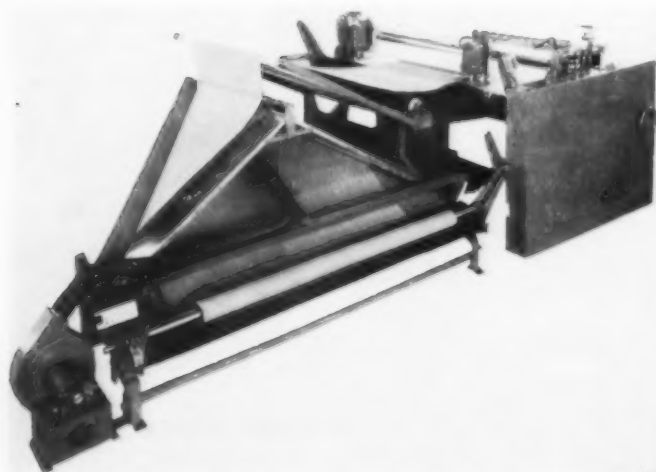
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Women's & Misses'

Vast Coordination Schemes Distinguish New Koret Line

By PEG HOPPIN MOOR

SAN FRANCISCO, Calif.—Texture, color, and luxury touches in popular priced garments distinguish Koret of California's new spring line which was recently introduced here. Knits for every mood and occasion are included and, as usual, there are many coordinating possibilities. Fully and partially lined dresses and skirts, expensive appearing trims such as color-matched crochet edgings and deep hems are among the detailing used.

Six different knit fabrics are featured. The two most exciting of these offer an interesting contrast in texture. One, called Bengara, is a soft, supple, pleatable and drapeable double knit — a crepe-like fabric which is a blend of Arnel, acetate and nylon. In the other, Lahala, cotton, rayon, and jute are combined to produce a homespun look of expensive linen.

The other four groups all use Permathal-Everglaze cotton knit by Alamac. There is a puff jacquard, a new fabric which looks as if it had a ribbon running through it; swirl knit in solid and jacquard with white; a textured diagonal knit in solid and stripe, and the traditional popcorn.

Colors are repeated throughout the extensive collection in varying ways. Black and white appear in every group except the Lahala where beige is the sole shade offered. Other colors are pink pearl, ginger, green pearl, lime, China blue, and apricot, with flag red and flag blue being used only in the diagonal knit.

Examples of the manner in which the high colors are used in more than one knit may be noted in the following: popcorn features pink pearl, ginger, green pearl, and lime; swirl uses beige, ginger, China blue, and apricot, while puff jacquard is interpreted in beige, China blue, and lemon. Green pearl is the fourth color in the diagonal group.

Pleated and flared skirt offerings are increased over past years but a slim skirt continues to be available in each one of the fabrics. In Bengara, for instance, skirt styles include (in addition to the shirred slim one) the Marquesa, where a large center pleat at the front balances smaller, unpressed pleats that circle the waist; a baby-knife

pleated style, and a box pleated design.

The Contessa with its soft, unpressed pleats is done in swirl jacquard, in diagonal stripe, and in puff jacquard, while a knife pleated skirt is shown in solid swirl.

As is customary, a variety of tops is included in each group. Necklines include boat, scoop, cowl, wing, draped, notched, convertible, collarless, "V" inserts, crew, crescent, keyhole, and standaway. Fashion interest is also focused on sleeves with cap, dolman, dropped and set-in being among those represented.

Lean lines are noted in a standaway neckline overblouse which runs hipbone length, has a self fabric tie belt and sleeves set-on at the shoulder drop. This style is interpreted in puff jacquard and in diagonal knit.

Long lines are also accented

in other styles including a below-hip length collarless cardigan using three different colors to make up the body of the garment. Three large buttons close the front with the button colors matching the section of the garment on which they are set.

The long line, easy fitting look is also used for in an overblouse of diagonal stripe. This design has a standaway neckline, patch pockets which join the side seams and lower hem edge, and a low, loose, back belt.

Among the coats, a swagger style with a plain cardigan neckline accented with set-on self banding is outstanding. Knuckle length and lined to the armholes, the front sleeve is raglan cut while the back is cut-in-one with the body of the coat. Diagonal knit and swirl are the two fabrics used for the swagger.

A twin pocket coat with a rounded tailored collar, deep pockets which join the side seams and extend to the hem, and below elbow length sleeves joining the body of the garment at the shoulder drop is presented

in the two jacquard knits — swirl and puff.

Dress styles are smartly understated. In popcorn, a sleeveless sheath is dramatized by a deep "v" in the back. In front, the neckline is a standup style with banded edges. A Chanel-type ensemble of the same fabric spotlights a crescent neck sleeveless, slim line dress with a self belt and cardigan jacket having three-quarter dolman sleeves and color matched rib trim around the neck and front stand.

The V-back dress also is done in puff jacquard while the Chanel ensemble is given another interpretation in swirl knit with the jacket and skirt of solid and the bodice of the dress of jacquard.

A second smart costume teams a crew neck sleeveless sheath with a lapel jacket. Made of diagonal knit, the skirt and jacket are solid with the bodice of the dress, the jacket lapels, and front facing being of diagonal stripe.

Many more costume possibilities are apparent through the

(Continued on Page 51)



These models from Koret's diversified spring line exemplify the many fabric and style groups. Left to right:

In Lahala knit, a homespun fabric of cotton, rayon and jute, is a surplice V-dress with elasticized waist, dolman sleeves and crochet trim.

Bengara, a double knit of Arnel triacetate, acetate and nylon, forms a dress with scoop neck sleeveless top and knife pleated skirt.

A popcorn stitch in cotton is used for a costume consisting of crescent neck, sleeveless dress and buttonless jacket edged in ribbing.

Bengara is also used on a box pleated dress whose double breasted bodice is welt stitched.

A star of the all cotton swirl knit group is this slim skirt and hip length jacket with drop shoulder, elbow length sleeves and rib trim.



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mixing and matching of separates. For instance, the Contessa or knife pleated skirt is given a suit look when worn with a shorty jacket which has a small tailored collar, elbow length dolman sleeves, self fabric pocket flaps, and four matching buttons closing the center front.

Where sheath styling is favored in dresses, there are also some full skirts — more than in years past. In Bengara, three of the offerings highlight eased skirts. There is a two-color, knife pleated dress; a brightly, young, sleeveless double breasted design with a box pleated skirt and boatneck; and a flare skirted style with its suiter neck banded with narrow self fabric with the same banding edging the sleeves and the center front bodice. The fourth dress of Bengara has a slim skirt but does use soft shirring at both sides of the front neckband.

A flared skirt style is also offered in swirl knit where a large wing collar is shaped to the front bodice placket. Sleeveless, it has a gently full skirt.

In diagonal knit, a double V-neck sheath is given a nautical

look when stripe trim is used along V-neck and backline.

A scoop neck dress in puff and swirl jacquard as well as Lahala; a standaway neckline style of swirl jacquard; a surplice V-neck dress in solid swirl; a cowl neck dress of Lahala; and a spectator dress of diagonal stripe complete the dress offerings.

All of the dresses and many of the skirts have self fabric belts. A number also have elasticized waistlines.

Pants in varying lengths are included in each one of the knit groups with the exception of Lahala and Bengara.

Match-Mates Stressed By Kaufman Knitting

MINNEAPOLIS, Minn.—A special collection of perfectly matched sweaters and skirts will be the highlight of the new holiday line of Kaufman Knitting Co., according to Ray Schaak, vice president in charge of sales.

Topping the list of sweater styles will be loose, heavy yarn weaves in long lengths. Skirts are slim styled with slits. The

sweater and skirt combination will be featured in the company's holiday line.

Colors include a wide selection of coral, mint, beige, mint blue, white and black. Yarns are mainly loops, mohairs and chenilles.

Bulkies will predominate during the holiday season complemented with some flat knits, Schaak pointed out. A popular variation has been the one-piece sweater and hood combination. Kaufman also has coordinated some pastel knits or mohair along with new ideas with embossed tapestries.

Prices for the bulky sweaters range from \$5.95 to \$18.95 retail. The flat knits retail at from \$5.95 to \$16.95, and the matching skirts will run from \$8.95 to \$12.95 retail.

2-Piece Wool Dress Goes Well In Idaho

PAYETTE, Idaho — Two piece knit dresses in high shades have been going very well in wools this season, according to Mrs. Pearl Poirier, women's knitwear buyer for J. C. Penney

Company. She says that two piece knits have sold well to all ages, including teens, college girls, young matrons, and the usual older matron group who have always been strong customers for these styles. Black has been popular with the matrons, while the younger women have bought turquoise, coin gold, parrott green, and magenta.

Matte jerseys have been strong year round sellers to the young married groups as well as the matrons, Mrs. Poirier declared. "Synthetic knits are really among our most demanded ready to wear. We can't keep enough in stock."

One piece wool knits, however have not been so popular. Mostly middle aged customers bought these, but they did not sell nearly as well as anticipated. She said small Peter Pan colors with embossed designs had shown a great deal of customer interest, and these features were often the deciding factor when a customer made the final selection of which garment to buy in the wool two piece knit class particularly.



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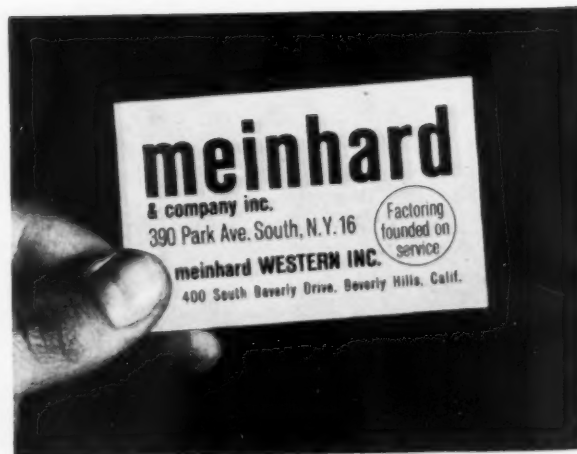
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Women's And Misses'

Show Aboard A Ship In Miami Is Loaded To Gunwales With Knits

MIAMI, Fla.—Southern Apparel Exhibitors Resortwear-Cruisewear and Holiday Market on September 24-27, at the Fontainebleau Hotel, Miami Beach, was the largest in the history of the organization. Approximately 263 members showed more than 650 lines of national manufacturers, and attendance increased in proportion to exhibits, with exhibit rooms and elevators crowded at all times throughout the show.

Buyers were spending money "like it was going out of style," one exhibitor was heard to say.

And, as expected in this year of knits, knitted outerwear showed an even greater upsurge, with more exhibitors featuring this type of fabric in their lines, and more new knit lines, designs and fabrics, as well as many new combinations of materials heightening customer appreciation of knit in the fashion realm.

Adding to the carnival spirit of the show, one Miami apparel manufacturer, Alexander Sportswear, bought a Surfside Six-type houseboat and anchored it across the avenue from the exhibit rooms of the hotel. The firm showed its new line aboard ship—and plans to use the boat as a permanent showroom.

"I think it's the only show ever held on a houseboat," said Arthur Chariton, the manufacturing company's president.

Jay J. Sweet, Southern sales representative of the Winnett Garment company of Los Angeles, was elected president of the Southern Apparel Exhibitors at the show. He replaces Philip Danziger, who has been elected board chairman.

A swim suit that holds you up in the water; bellbottom trousers and the briefest bikinis you've ever seen are just some of the sights on view at the show.

Among things you can look forward to wearing, come December or so when most of the items shown in the show will be in the stores, are —

Sink-proof suits, for men, women and children, lined with a material called Ensolute, a U. S. Rubber Co. project created by being shot through with nitrogen bubbles. Designed by

Shaheen of Honolulu, the suits add surprisingly little bulk to the suit silhouette.

The resort pants story is both a slim one and a wide, wide one. Bell bottom trousers, a sailor's favorite, is turning up in high fashion collections. Farthest out are those of California's design genius, Rudi Gernreich. His bell-bottoms are made of bright red wool knit, and coordinated with red middies and double breasted blue sailor pea jackets.

Other designs, like Hollywood's Pantino, still swear by the skinny capris. And others, such as Phil Rose, are "stretching the story still father." He goes all-out for stretch pants tailored like ski pants, with an ankle stirrup to secure them. The stretch is just one way—up and down—to flatter the curves.

Low slung bikinis are a Pantino idea, too. The pants come just high enough to ride the hips. Rudi Gernreich is also the author of the brief bikini swim suits—just a triangle of wool knit, covered with striped knit tube tops. Mr. Gernreich has also copied in his new men's wear line some of the same looks that have startled his women fans. Tank suits with straps over the shoulder, for instance, and porthole cutouts at the sides. And bikinis for men.

Optimism for business not only reigned at the exhibition, but at two other shows held simultaneously — the Florida Council and the Pan American Mart, where some of the same styles were on exhibit.

"Never have we had such an abundance of beautiful seaworthy knits," said C. B. Brasington, Jr., who with his father owns Ceeb of Miami. Instead of all Helanca, the nationally famous firm is adding 20 per cent cotton and elastic, in some swimsuits—to form a more substantial product, in weight of fabric, and in figure control.

This same exhibitor noted another trend—maillot styling — coming up in importance. Armhole styling, low backs, and the long leg instead of the sheath

(Continued on Page 55)

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look, are other fashion trends in knit swim suits this year. Nylon, Orlon and other synthetic fibers have been blended in many swim suits this season to form textures that give the appearance of soft wool, raw silk, or even brocade.

Especially fashion worthy this season are swim suits with the ribbon knit idea in Helanca—to camouflage the figure, or create a soft, flattering look. Both lightweight textures and heavier ones are popular in swim suits this season, the exhibitor pointed out—the heavier for figure control. Many necklines and straps are tapered out to the shoulders now, for extra flattery in swimwear, and magenta was reported by all exhibitors as big this year in the swim suit line, as well as in sweaters and dresses. Clear colors, such as orange, and lime, are replacing muddy tones.

One exclusive print in the Ceeb of Miami line is a hand screened daisy swim suit, available in black and white and gold and white. This striking suit is proving among the most popular in the line. Another im-

portant swim suit in the Ceeb line has the Italian influence—solid colored body, tri-colored knitted pattern in bodice to give a diagonal look, and one shoulder design, another important feature this season. Another Ceeb knit suit that is setting a style trend this season is a black and white novel weave that resembles tapestry with attached Helanca cummerbund in contrasting color.

It was evident in most collections shown in the show that the two-piece swim suit is gaining in popularity. This trend has been building up for several years, is even more prevalent this season. Ceeb has six two-piece styles in his current line, as against two last season. If the trend continues its steady, healthy uptrend, who knows, there may be 12 styles next year.

Ceeb admits his current resortwear-cruisewear line is composed of approximately 40 per cent knits, as opposed to 30 per cent last season. This shows the consistent, important and healthy gain that knitwear is making in the fashion field in swimwear, as well as in sports-

wear, and even in cocktail and dinner dress lines.

Proof of this is a dramatic long-sleeved, floorlength backless knit evening gown of black, accented with rhinestone trim, included in one line. This frock, an eye-catcher on any dance floor, showed great popularity with buyers, according to the exhibitor, who also reported excellent traffic in two-piece knit Bikini suits, as well as in a scanty one-piece tank type suit, cut extremely low in back, with huge cut-outs on each side.

Beefeaters is the name of another grouping of knit toppers that one exhibitor showed—to team with skirts, shorts, Capris, etc. Terrific is the word one exhibitor had for a knit dress—wool, nylon and mohair—and the coordinated groupings (wool jersey pants, skirts, knit toppers, etc.) of this pattern. Ice cream colors; styling, and the ever-popular push-up sleeves, are other distinctive details of this design.

A three-piece knit outfit—pants, skirt and top—in red, white and blue, was a popular item in one line at the show.

This same exhibitor reported great acceptance of a flat knit suit, with Jackfin tailoring, three-quarter sleeves and kick-pleat skirt.

Beaded Ortons and beaded fur blends were good items in the sweater line of another exhibitor. While lace-trimmed sweaters are still selling well, they have taken second place this season, in the opinion of one exhibitor, to the bulkier type of decoration—embroidered flowers of velvet ribbons or heavy yarn. Many such decorated sweaters have three-quarter sleeves, and collars, some that button. Fur-trimmed sweaters are still strong, he said, and among new type sweaters of the season are all-over sequinned numbers, which are finding great favor for evening, and after-five wear.

Ski-type sweaters, and bulky horizontal striped ones find favor with the young crowd; mature women prefer more conservative styles.

Cotton knit shirts with batteau necklines, novelty stripes to be combined with solid pants were also hot numbers at the market. Some shirts had hoods.

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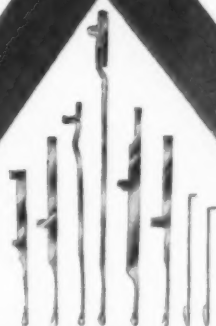
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Swimwear

Lightweight Fabrics, Gay Colors Stressed By Catalina

By ILANA HIRSCH

SEVEN designers have created a collection of women's swimwear for Catalina that encompasses every new and classic silhouette, all fibers, and colors and prints galore. Supplementing sheath, maillot and boy short styles are two-piece suits and bikinis, tunics, skirted suits and ensembles. Lightweight fabrics are heavily emphasized. Knitted Helanca-processed nylon and spandex suits share the spotlight with woven elasticized Lycra and Vyrene. Cotton and other elasticized fabrics are offered along with cotton blends.

The easy fitting or relaxed suit is as important as fitted, body-conscious styles. The latter are emphasized in a group of Helanca nylon and spandex skimmer knits shown in both solids and novelty prints. Sky blue, orange, watermelon, lemon and lime are highlighted shades. Abstract and art nouveau florals, leaves, water color and a plumage print are interpreted in the clear, bright pastels.

Silhouettes are a scoop neck and back, blouson top maillot detailed with a patent belt; a low-waist asymmetrically wrapped sheath, an adjustable two-piece bikini, a classic maillot, a high front, low back maillot and a bloused tank top maillot with a tunneled belt.

From a special collection of Helanca and spandex skimmer knits are a stripe detailed sweat-shirt swim suit, a maillot patterned in curved stripes, a tank top boy shirt suit with a striped top and solid shorts and a two-piece with brief boy shorts and V-neck top. Some of the above silhouettes are repeated here. These suits come in a striking yellow, black and white combination.

The most novel of all silhouettes has one shoulder strap and is marked with large tear-drop cutouts in back. Others are a convertible two-piece, a sheath that has vari-sized stripes beginning below the waist, a sleek classic sheath and maillot and a tu-tu skirted knit which fits snugly but for a self-fabric ruffle around the lower edge.

A new silhouette in knits, the longer length boy leg is interpreted in Orlon. Another Orlon knit is a brief but modest classic two-piece and a third is a maillot with braid underscoring a low waist.

Cotton is used primarily for woven rather than knitted constructions but a cotton knit with white braid along the neckline, down the center and along the leg, is featured.

A seersucker weave in a white/yellow / green / yellow / white stripe is used on a narrowly cut boy leg suit piped in self-fabric, and a conventional two-piece with V-neck coordinated cover-up.

A dobby striped cotton fabric is used for several coordinates including a sheath swim suit with elastic side panels and a two-piece with tu-tu ruffled pop-over. Other pieces are a sleeveless blouse, full skirt, roll sleeve shirt and Jamaicas.

South Sea Island prints in vivid, flat surface prints are on cotton. The suits, in island spirit also, are a draped two-piece and a shashed sarong.

Cotton blends with Arnel in a corded very feminine lace trimmed group of swim suits that are narrowly striped in blue, pink or yellow with white. Styles are a boy leg short, a box pleated skirt with sash and a two-piece coordinated with a sleeveless coverup.

A suit of Fortrel, Celanese's polyester, blended with cotton comes in solid color with white piping which is especially effective along scalloped edges. Included are a tank top boy short suit with matching pullover, a tank top, godet flare skirt with belt and a two-piece boy short.

In Arnel sharkskin comes a blouson suit with a narrowly pleated skirt and button-detailed demi-belt. Tiny pleats mark the skirt of a white Dacron crepe tunic suit which coordinates with a sleeveless yoked shirt that is also pleated. Also in Dacron crepe are a boy-short, with blouson shoestring straps and tie patterned in black dots on white and a two-piece suit ensembled with a blouson top.

Woven elasticized suits stress lightweight fibers primarily

Vyrene and Lycra. Leno weaves, significant for their lightness, are also prominent. Interesting treatments include asymmetric draping, fanned draping, envelope backs, and blouson bodices on Vyrene and Lastex.

Suits are patterned in foliage, floral and geometric designs and also plain and matelasse solids.

A special collection of suits for the junior sized figure (size 6-16) is a cross-section of silhouettes, fabrics and special treatments from the regular line.

Cotton suits with multi-color signal flags, a seersucker that has a one-piece front, two-piece look in back, a lace-trimmed elasticized boy leg and sheath, a popcorn striped knit maillot in one- and two-piece styles an abstract floral print on a knit, cable trims and cut out portions on knit are just a few of the highlights.

Many suits have matched coverups in a number of styles but Catalina has several tops that go with any number of suits. For example, a pleated white cotton gabardine coat would go over any suit in the line.

Beach shifts are numerous and diversified. Included are a sleeveless, scoop neck tunic in a multitude of colors, a signal printed white duck, a brass buttoned floral printed shift and a plain and printed cotton with low-waisted sash. Cotton knit shifts come in sleeveless, long sleeve with pockets and boldly striped short sleeve models.

Listed among the coverups are a blazer jacket, a terry cloth slip-on and terry buttoned coat—both with three colored stripes—and a tasselled, collared knit skirt with large patch pockets and a hooded knit blouson.

Raised Jacquard Knits Are Featured In Sea Nymph's Swim Suit Line

Rainbow brights in feather-weight fabrics describe the new line of Sea Nymph swim suits designed by Betty Lewis and made by the Jordan Manufacturing Corp. Lightweight fabrics include Vyrene, cotton, Dacron, Helanca processed nylon, and various Lastex-content blends. Knits and wovens share equal prominence with novelties in both types representing highlights of the line.

Relaxed Silhouette

Dominant silhouette trends are the relaxed look and the oval back. The former is achieved primarily through an elasticized waist that creates soft fullness. The oval back, a pretty scoop shape somewhere between a "V" and a "U", appears on a large percentage of suits in the line.

All the standard necklines are represented but one of the novelties — the asymmetrical — is highlighted and is unusual both in structure and in design. The front is cut on the diagonal; the higher strap having built-up proportions and the lower one, narrower and squared off.

Classic Helanca knits in raised jacquard designs are underscored in the knit group and come in one- and two-piece

models. The designs include zig zags, polka dots, a small floral and a harlequin motif.

Nylon mesh laminated to tricort is a featured construction among the knits. One style of this type has an oval back, scoop neck and mock pocket detail. Another suit of this construction is straight across the top with soft gathers along the bra.

Cotton and rubber knits are a novelty stripe maillot with built-up straps in red, black and white or green, orange and white divided into three bold front panels which are separated by a narrow stripe; a quarter panel sheath with gather trim along bustline and many colorful prints. In the print group there are various multi-colors on white grounds and tone-on-tones. Tapestries, abstracts and florals predominate.

Nylon tricort is also printed in large floral patterns where small areas of the ground color show through. Small prints tend to emphasize backgrounds where form is as important as that of the actual motif. Clear and brushstroke type prints are included. Stretch nylon tricort also comes in solid colors on low

(Continued on Page 58)

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back sheaths and maillots.

With its front cut on the bias for an unusual and eased look, a woven, multi-color stripe in bright pastels is highlighted among the woven elasticized numbers. This suit has an oval back and elasticized waistline. A multi-color floral — another popular pattern in this collection — has a rolled collar around the neckline and an oval back. Another featured Lastex-content number is a one-shoulder style that can also be worn strapless when the strap is tucked imperceptibly inside.

Other novelty silhouettes in Lastex are a boy leg with a double breasted midriff, a low waisted suit with lace trim and princess suit with surplice neckline.

Among the many draped suits, a side drape that begins at a lowered waist is the most dramatic. Backlines on Lastex-content half panel sheaths and maillots have low to high backlines and come in prints and solids with novelty treatments such as shirred or tucked inserts and gather and ruffle details.

A center panel that extends vertically until it reaches the bodice of a sheath and then veers suddenly becoming half of the bra is the most interesting of contrast color details used on woven elasticized suits. Another interesting bustline is found on a square neckline with center notch.

Cotton suits are seersucker weaves and smooth surfaced cloths. There are solids, prints and various striped fabrics. Graduated stripes are popular and a ticking stripe is made more attractive with embroidered flowers. Blue, orange and yellow are the colors offered for both stripes and flowers. A graduated stripe in seersucker comes on a boy leg and skirted suits in pink or blue with white.

In a slubbed cotton is one of the most attractive prints entitled Kissin' Cousins. Main colors in the print of this boyleg suit are fuchsia and gold with fuchsia used for the cummerbund.

Off-beat florals are most numerous among prints, but there are also swirls, a large, multi-color paisley and a stained glass motif.

The most originally styled of the cottons is a strapless maillot

with a skirt. The suit is solid except for the maillot pants which are patterned in abstract geometric blocks multi-colored in fuchsia, yellow, rust and dark and light green. The little overskirt, which is lined in the printed fabric, is slit to reveal the trunks. A flower is appliqued onto another unusual cotton suit and stem and center are embroidered.

A 100 per cent Dacron sheath has soft gathers on the bustline and inserted panels up the front. Another Dacron is screen printed.

Three styles are offered in Vyrene, a highlight of the woven group segment. The featured suit is a draped sheath with tiny tucks along the s bustline.

Recent Stock Dividend Is Jantzen's 14th Since 1949

PORTLAND, Ore.—A letter sent to holders of Jantzen Inc. common stock pointed out that the 4 per cent stock dividend recently declared is the company's fourteenth. Added to others paid since the first such occasion—on February 1, 1949—this makes a total of 126 per cent in dividends of this kind. This growth of shares has been accomplished without any change in the cash dividend rate of \$.80 per year.

The stock dividend just paid will enable the company to transfer about \$1,045,000 from the earned surplus account to the capital surplus account, to be used as additional working capital.

A stock certificate was issued for one additional share for each 25 shares of common stock owned on October 13, 1961. No fractional shares were issued; checks were given in lieu of fractional stock or scrip to those holding amounts of stock not evenly divisible by 25. The checks represented the net proceeds from sale of shares to cover these fractions.

Woolens & Worsteds

Elects Stevens Official

Robert M. Stopford, J. P. Stevens and Co., was elected president of Woolens and Worsteds of America, Inc., at the annual meeting of the board of directors. Mr. Stopford, a director, succeeds George A. Ott of Richard M. Ott & Sons, Boston.

Color is the name for Morgan



Southern women dyeing homespuns with butternut hulls during Civil War.



THE MOST ADVANCED SKEIN DYEING EQUIPMENT KNOWN

The picture above shows part of the battery of highly specialized tanks in the Morgan Skein Dyeing Department which dye all natural and man-made fibers under precisely regulated temperature and pressure.

A CENTURY OF PROGRESS ... in dyeing, too

Those hardy Americans who knew garment color as a quality laboriously come by would staunchly approve the change in the picture today. In the shining stainless steel tanks of the Morgan dyehouse, many tons of dyed yarns are turned out in the time it took to prepare the hulls and convert one uniform to butternut brown.

What's more, today's *precision dyeing* at Morgan takes the guesswork out of color... processes every lot to the customer's exact requirements, while preserving the utmost in hand and bulk. Morgan service goes further, too — even helps you select the colors that will sell best *next* season, while busily supplying your needs today. It's the kind of *complete* dye service only this fabulous Century of Progress could make possible...

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Reference material courtesy of Ciba Company Inc.

Painting by Claude L. Salisbury

"DO-IT-YOURSELF" DYEING FOR CONFEDERATE UNIFORMS

Prior to the Civil War, the fashionable ladies and gentlemen of the South looked for their finery to England and France, where the arts of dyeing and fancy clothes cutting were highly developed. Then came the outbreak of hostilities, and the ensuing Union embargoes against trade with these countries (to their considerable disconcertment) . . . and other solutions — sometimes makeshift — had to be found.

As a consequence, uniforms for the Confederate soldiers were sometimes a motley assortment. In the rural areas, families took to dyeing homespun with butternut hulls — in such quantities that the troops were often termed "The Butternuts." The color produced by the hulls was a brown, forerunner of the familiar khaki camouflage color.

In this painting, the artist illustrates a typical scene of the period. Near the center of the painting is a butternut (North American White Walnut) tree, with a white boy in the tree shaking down the five-nut clusters, while the colored lad collects them below. The green hulls were stripped from the nuts, then boiled together with the garment to be dyed (as seen in the foreground) until the desired color was obtained. Other details of interest in the scene: the cast iron pot over the open fire, and the stick for lifting garments from the dye solution; the unpainted clapboard plantation house at the right, with the slaves' cabin in the background; the ever-present metal-banded wooden barrels, the sawbuck and axe, the rocking chair on the porch; the women's clothing in the customary style of the period.

Skein dyeing • Package dyeing • Raw stock dyeing • Top dyeing • Tow dyeing

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Additional copies available on request.

Infants' & Children's McKem To Use Double Laminate For Younger Set

BROCKTON, Mass. — Michael Viola, vice-president and chief designer of the McKem-Vanta division of Shawmut, Inc., introduced a double laminated fabric for ski pants and jackets this fall with such success that its application will be greatly extended for fall, 1962, in children's winter wear in stripes, jacquard design and tapestry effects.

The double lamination process gives material considerable stretch in all directions and also enough stability to be easier sewn and tailored. The new fabric structure is applied to both woven goods and knits, but the elasticity is particularly pronounced in the knits.

Curon foam is first laminated to the double knit face of cotton and also wool and then re-processed to adhere cotton jersey knit fabric to the reverse side so the polyurethane composition is sandwiched between the two. In

addition to yielding a fabric with the characteristics of knits and the facile handling qualities of woven material, the new process serves also to preserve shape after laundering.

At present, double lamination is used for ski pants and a jacket in solid colors of red, blue, teal, orange and black, trimmed with two-tone panels of jacquard, for sizes 3 to 6 X, 7 to 14 and pre-teens. The pants taper, have a strap under the instep and are fitted with zippers at the side and a button-fastened self-belt.

Fleece Lined Hood

The jacket, sold as separates or as a coordinate to the pants, has a hood lined with Borg's knit pile fleece and is decorated with two panels of jacquard in two colors extending diagonally into a V-yoke. A cord tie in matching color is applied at the collar and waist. The front and two slash pockets have a zipper close.

Laminations are formed on equipment installed last spring in the Stoughton plant of Shawmut, Inc., which has been acquired by the Ames Textile Corporation. McKem-Vanta operations have been moved from Stoughton to the division's Brockton plant, previously used

for shipping and finished goods storage.

Special emphasis is planned for boys' knit polo shirts. The line has been expanded to include larger sizes ranging from 6 to 20 made up in all cotton, Dacron and cotton and Arnel and cotton.

Fashion collars are used predominantly in the collection and a variety of fabric patterns have been applied for novelty effects. New spring colors incorporated in the boys' line comprise ming blue, jasper green, sandalwood, red, sailing blue and a toned down orange. Where color patterns are pronounced, subdued tones have been used but in the main, bold colors have been combined with white to create seersucker, tattersall check, pin dot and hair-stripe designs.

One novel pattern used on a boatneck consists of brown and blue on white and also red and blue on white. The horizontal stripes about one inch and a quarter wide have a cable stitch extending through the middle. These appear on a white background with a narrow band in the three colors in rick-racking alternating between the wider stripes in color.

Hand embroidery and appliques have been used extensively even on all-over stripe fabrics. One cruise shirt with a two-tone striped V-neck has a nautical emblem embroidered on the body of solid color while on stripes appliques are frequently applied.

All-cotton styles in the line include a bowling shirt of a new gab-twill fabric with fashioned collar and two button placket; another is a shirt made up in large checks about an inch square combining a subdued tone with white and a third has one-eighth inch horizontal striping in an all-over pattern. Other designs in this selection are a vertically knit seersucker pattern and a tattersall check made up in a button-down collar style with a poncho bottom.

In Dacron and cotton, a white collar is mounted on a pin dot body. The collar is narrow and pointed and the same style has been used for an all-over striped body. The button-down collar has also been used for an Arnel and cotton shirt offered in solids of blue, green, and off white.

Another stripe application is

(Continued on Page 63)

HERBERT MILLS ASSOCIATES INC. Announces

The newest Spring and Summer Styling for 1962.

We are offering the most extensive lines ever shown of Men's and Boys' knitted sport shirts in cottons, cotton blends and Orlons.

See our lines now in our show room.



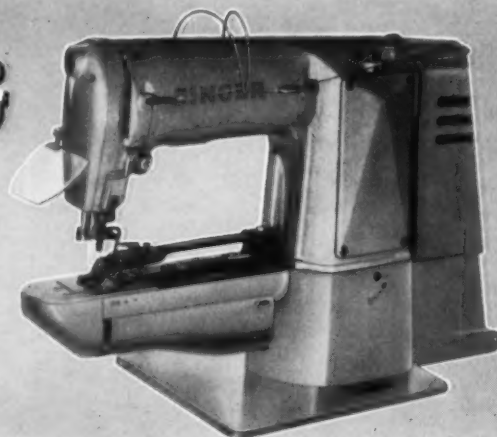
112 West 34th Street, New York 1, N. Y.
PEnnsylvania 6-2850

Factory: HERBERT MILLS CO., INC.
Marion, S. C.

SWEATERS • KNITTED SPORTSWEAR

The New SINGER 270 BUTTONSEWER

Featuring
**LOCKSTITCHING
WITHOUT
BOBBIN
CHANGES!**



IF YOU'RE A MANUFACTURER—



You can take advantage immediately of the new SINGER 270 buttonsewer. Your operators will experience a speed and ease in button attaching they never imagined possible—*because they have no bobbins to change!* In addition, you will discover a *quality and dependability of attachment that cannot be duplicated by any other sewing method!* And you can take advantage of the publicity and promotion support that SINGER is giving this new sewing method—under the name of **EVER-LOK**—by using the identifying tag shown here. SINGER will make these tags available to you without charge.

IF YOU'RE A BUYER—

You will be able to buy garments with complete assurance of the quality and dependability of the button stitching, because they will be lockstitched. Buttons will look neater and lie flatter than any you've ever seen before—and *with unusual durability of attachment!* And equally important, you too will be able to take advantage of the added sales power that the promotion-supported SINGER tag can provide.

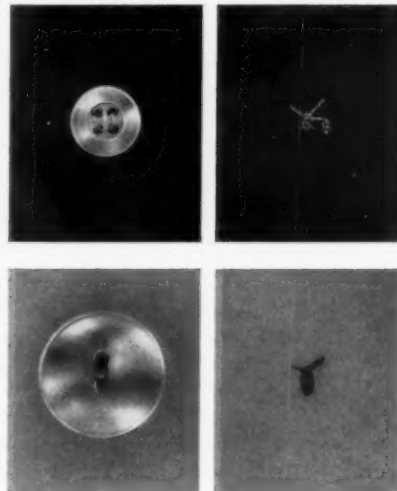
**Ask your SINGER representative for more details
about EVER-LOK stitching—and about
the new lower-rate SINGER Rental Plan.**

SINGER SEWING MACHINE COMPANY

Industrial Products Division
149 Broadway • New York 6, New York

*A Trademark of THE SINGER MANUFACTURING COMPANY

Milestone In The History Of Sewing—The New SINGER 270 BUTTONSEWER



Distinctive mark of buttons **EVER-LOK** stitched by the new SINGER 270 Machine are the two evenly clipped thread ends on the underside. Note, too, the neat, flat appearance of the underside and the complete absence of thread bunching.



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a horizontal arrangement with stripes graduating from hair-line width at the top to about one inch at the bottom in an all-over pattern. Tones are blue, red or orange with white and for this shirt a goucho neck was used with a one-button split placket and a white edge on the solid colored collar. Fabric used for this was a crepe stitch knit.

In Ban-Lon, the McKem line includes a shirt with a fly placket and a one-button fastening at the collar. This has short sleeves with ribbed cuff and a two-tone embroidered emblem on the breast.

For girls, the line features par-fait colors such as orange ice, lime sherbert, strawberry and blueberry, with white. Screen prints have been used extensively on knit shirts and knit fleece over-garments. Knit tops coordinate with both knit and woven shorts, slacks and skirts. A good proportion of the girls line is of cotton but Dacron and cotton have also been included.

Top styling employs scoop and boatnecks and also narrow Peter Pan and McMullin type collars in sleeveless, quarter sleeve and push-up models. As in the boys' line, much embroidery and appliques in two and three colors have been utilized.

In the nautical group, on a bamboo toned background, signal flags have been worked in jacquard into placed stripes in two bold alternating colors.

Walker-Stetson Line Features Patterns

BOSTON, Mass. — Knit fabrics in jacquard, floral and tapestry designs will have a prominent place in Walker-Stetson Company's spring line. Solids will be favored over stripes and Paul Coveney, sportswear buyer, predicted a big season for the medium shades, somewhat stronger than pastels, and a tendency to get away from the basic tones.

Plans are to make a special effort to coordinate the entire line and offer any number of mix and match combinations. Colors earmarked for special emphasis by this firm are blue-green, citron, pink, mint and pumpkin.

Cotton knits and stretch nylon garments in infants' wear are expected to be big, Mr. Coveney said, and sleeveless jerseys are

expected to be increasingly popular for the 1962 spring and summer.

Abnormally warm weather in this area injured retail sales this fall and this resulted in a good market for knit gloves, mittens and heavy goods whereas it might have been terrific. However, it is estimated that retail inventories are in a healthy shape and not overloaded. As seen by this wholesale house, prices for spring will be at last year's level except for very basic apparel where some tendency to advance has been noted.

Mr. Coveney said that stretch pants, introduced in the fall line, produced a tremendous volume of initial sales but reorders proved disappointing. However, this type of garment will be included in coordinated offerings for spring, and is scored as the biggest fall seller.

Nautical Themes In Alabama Line

BIRMINGHAM, Ala. — Knits in the nautical look dominate Simon & Mogilner's children's wear fashion for spring and summer of 1962. Built around the these Fashions Ahoy, cotton knit coordinated sets feature tops in flared, angel, poncho styling, teamed with Capri pants, shorts, pedal pushers, deck pants and Jamaicas.

The nautical look runs through the entire line, presented in sizes 2 to 4, 3 to 6X, for boys and girls, 7 to 14 for girls; with knit or knit trim in novelty effects strongly featured in sportswear coordinates, deck-pant sets, sun-suits, short sets, bloomer sets and tennis dresses.

Infants' novelty sportswear sets, at \$1.98 to \$2.98 retail, (\$15 to \$22.50 per dozen, wholesale) . . . also appear in knits, as the trend toward knits continues throughout the entire line.

High shades, such as turquoise, hot pink, and citrus colors, orange and lime, combine with novelty touches, such as utilization of giant appliques, to make the new children's wear fashions outstanding.

Leading designs include a sportswear coordinate set, featuring knit, poncho-top teamed with knit pants. Top rick-rack trimmed, and appliqued with anchors, ropes.

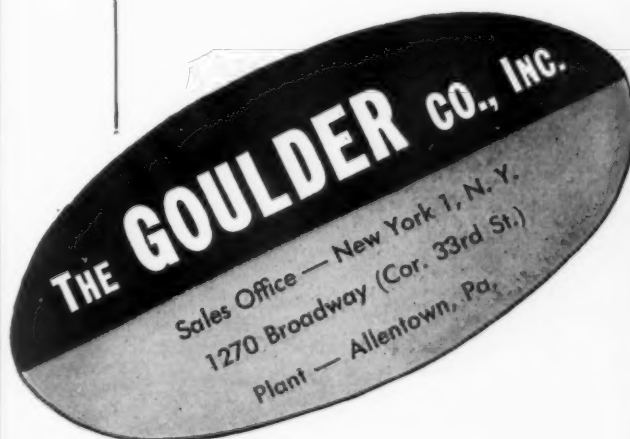
RelyABILITY KNOW-how Experience

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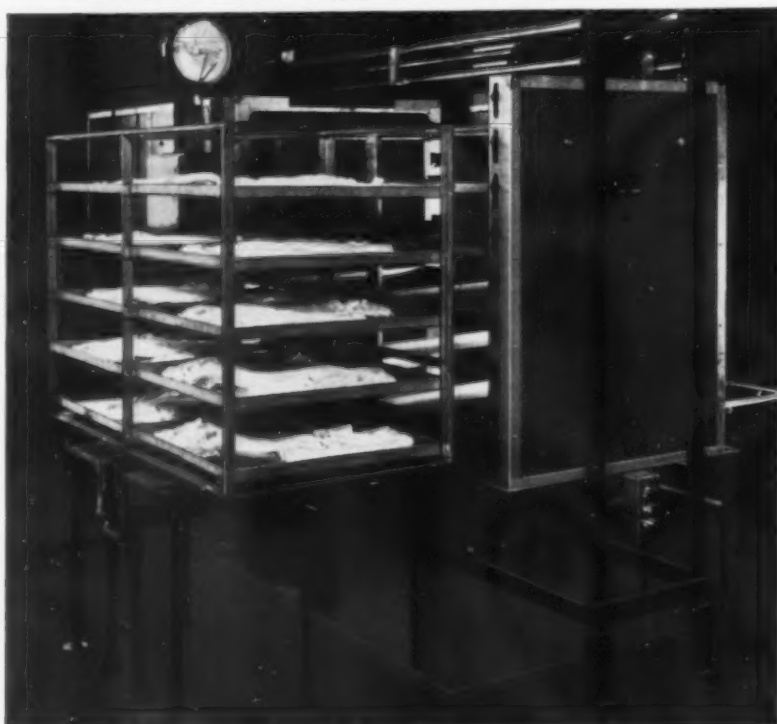


MANUFACTURERS OF
KNITTED CASUAL
SPORTSWEAR

featuring

"PERMATHAL-EVERGLAZE"

Shrink-Controlled Cotton Knits

TURBO FSW-300 SWEATER SETTER**for sweaters . . .**

The Turbo FSW-300 Sweater Setter brings automation to the setting of sweaters. Only loading and unloading are manual operations. With a 10-tray carrier, production is 160 dozen sweaters per 8-hour shift. With a 14-tray carrier, the production rate is 224 dozen sweaters per 8-hour shift. These production figures are based on a tray load of one dozen sweaters per tray.

Turbo Sweater Setters use a combination of pressure and vacuum to help you achieve dimensional stability in the fabric. Additional advantages are improved hand, increased smoothness of fabric and improved dyeing properties.

Dimensions: 88" high, 106" wide, 188" long. Occupies approximately 140 sq. ft. of floor space. Weighs approximately 9300 lbs. Bulletin on request.

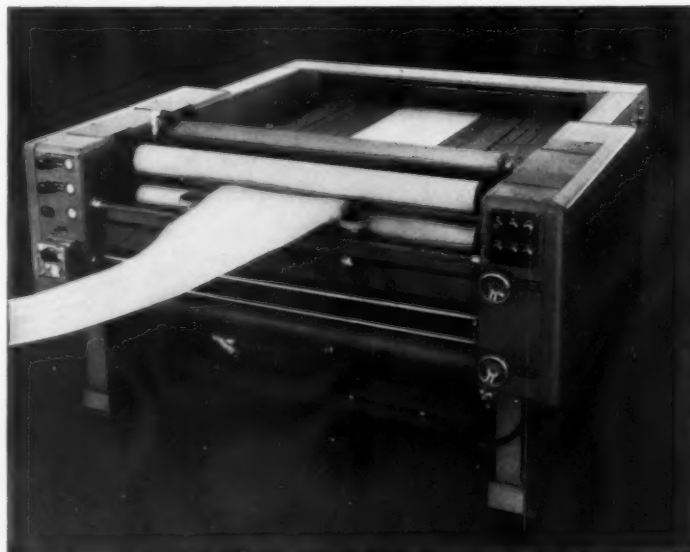
NEW ECONOMIES in Knit Goods Processing

for tubular knit fabrics . . .

Tubular fabrics can be stretched, steamed, pressed, then neatly rolled or folded at speeds up to 60 yards per minute on the new Turbo Finisher.

A patented spreading-feeding mechanism is used in combination with a fabric tensioning control which is attached to the press rolls. Nip pressures can be varied to handle fabrics of any thickness, including heavy thermal fabrics. Single, double and triple ends can be finished simultaneously. Maximum single width is 64 inches.

Dimensions: 51" high, 97½" wide, 150" long. Occupies approximately 110 sq. ft. of floor space. Weighs approximately 2000 lbs. Bulletin on request.

TURBO FINISHER FOR TUBULAR KNITS

TURBO



TURBO MACHINE COMPANY, LANSDALE, PA., U.S.A.

Telephone: Ulysses 5-5131



Synthetic Fibers

Dynel Prices Sharply Reduced

Union Carbide Company, manufacturers of Dynel modacrylic fiber, has joined the three major producers of acrylic fiber in reducing prices.

H. M. West, manager of the company's Textile Fibers Department announced that effective immediately, seven of the textile fiber lines have been reduced in price. Only the dope-dyed high-bulk fibers, carpet fiber, and Aeress modacrylic filament yarns are unaffected by the sweeping price cuts.

Regular Dynel staple fiber and tow in 3.0, 6.0 and 24.0 denier are reduced 35 cents and 30 cents a pound to a new price of 75 cents. Twelve denier fiber used for scatter rugs and paint roller covers is reduced to 70 cents a pound. Three and 6.0 denier Dynel fiber spun with color is reduced from \$1.20 to \$1.05 per pound.

Mr. West cited the company's experience in market Dynel fiber for carpeting, where pricing the

DYNEL Staple and Tow—Prices per Pound

	Old Price	New Price	Decrease
2 den. regular	\$1.10	\$.85	\$.25
3 and 6 den. regular	1.10	.75	.35
3 and 6 den. spun with color*	1.20	1.05	.15
3 den. high shrinkage	1.15	.95	.20
3 den. high shrinkage spun with color	1.30	1.30	-0-
12 den. regular	1.10**	.70	.40
15 den. carpet	.65	.65	-0-
24 den. regular	1.05	.75	.30

*Standard colors available are blond, pewter, gray, brown, charcoal and black.

**12 denier Type 80 fiber for scatter rugs had been priced at 85¢ per lb.

synthetic fiber like any other commodity — the lowest price level possible, with a minimum of promotion — has resulted in intense interest on the part of carpet mills who are anxious to give better produce value at a lower cost to the consumer.

DuPont Patent Covers Blend of Elastic Fibers

WILMINGTON, Del.—The DuPont Company has been issued a patent covering staple blends of synthetic elastic fibers and either natural or synthetic inelastic fibers and products

made from such blends.

The patent covers blends in which the elastic staple content is less than one-half by weight, with the fibers intermingled to impart cohesion. Also covered are yarns and fabrics made from these blends. The elastic fiber used in the blends has a denier of less than 30, according to the patent.

Evaluations are underway on blends of staple and top of Lycra spandex fiber with inelastic fibers for various uses, including tailored clothing, knitted and woven outerwear.

Cyanamid Fall Card Has European Colors

A fall 1962 card, with colors from European collections, has been prepared for distribution to the textile trade by the designer service of American Cyanamid Company's fibers division.

The color families have been separated for easier selection of shades. The swatches are in 100 per cent Creslan. Dye formulas for all shades are available from Cyanamid's dye department, and each shade is numbered to facilitate the handling of inquiries for dyeing information.

Celanese Fibers Names Merchandise Coordinator

Helen S. Johnstone has joined Celanese Fibers Company as a retail merchandising coordinator in the East. She will be responsible for coordinating and bringing the sales promotion and advertising programs for Celanese fibers to retail outlets.

Mrs. Johnstone had been West Coast representative and consultant for the decorative textile division of Owens-Corning Fiberglass for seven years.

YOU ARE IN THE RIGHT SOCIETY...



with woolen spun yarns
of distinction from

WINCHESTER SPINNING CORP.

specialists in keeping the
right society for 80 years

let our experienced staff discuss
your fiber ideas and make
recommendations and quotations.

New York: Huggins-Celland, Inc.
1440 Broadway, BRyant 9-8752
Philadelphia: Frank L. Durr
1207 Western Savings Fund Bldg., Kingsley 6-4855
Providence: Raymond J. Walsh
22 Edison Ave., GAspee 1-6694
Charlotte: Collingwood, Ibach & Co.
205 S. Church St., EDison 2-1428
Tennessee: Joseph S. Persinger
Lookout Mountain, TAYlor 1-2170
Chicago: George W. Veness
222 West Adams St., STate 2-8962

WINCHESTER

SPINNING CORP., WINSTED, CONNECTICUT

octavit

For the manufacture of a range of 'HAUTE COUTURE' Interlock fabrics, in classic and fancy knitted designs—Pique Jacquard and other fancy designs obtainable by tucking. 16—18 gauges.

For material in the piece with graduated patterns in two or more colours, stripes—plaid in 2 colours on an interlock base—Pique six feeders 'tuck' 'Jacquard' (RODIER) 8 lock. 16—18 gauge.

macdet

For Jacquard design with pattern wheel selection for all formations, 2, 3, 4 colours in Jacquard and in relief—with the possibility of incorporating a 2 colour striping apparatus at each feeder in order to obtain plaid designs of large dimensions. 14—16—18 gauges.

nopavitar

Interlock with automatic change to 1 1 rib border with draw-thread welt, 15 to 20 panels per hour, or continuous production of piece goods if required. Diameter: 640—780—840 mm. Gauge: 16 and 18.

macbor

Automatic coarse gauge Circular Jacquard Machine, designs without spiral, Rib Border with drawthread—automatic stiffening—plain and fancy rib fabrics, in garment panels with French or English Rib Border. Production: 1 jacquard panel complete with rib border in 2 minutes—Diameter: 780 mm. Gauge: 4½. 12 Feeders.

maclenn

The most productive machine for the manufacture of under garments and garments in eyelet fabric 'straight or diagonal' in the piece, with or without designs. 16 gauge.

oravit

Fur fabrics—Plush—Bouclettes—Carpet—Moquettes etc, automatic cutting of the loop into two equal halves. Height of pile 6/20 mm. Production: 16 to 20 square metres per hour. Diameter: 780 mm. Gauge: 10. 12 Feeders.

TOPP

PURL MACHINE (single cylinder) equipped with pattern wheels to knit in the piece or in panels—fancy designs in relief and in colours. Production: one panel complete with border in 2½ minutes. Width: 16"—26". Feeders: 6 and 10. Gauges: 8—10 and 12.

pénélop

For high production of all types of Jersey Fabric.

EMAVIT 11: Latch needle Machine. Plain fabric. Visible Weft and fancy stitches by cam set out.

EMAVIT 221: Bearded Needle Machine. Plain fabric. Visible and Invisible Weft.

EMAVIT 33: Latch Needle Machine. Fancy designs by pattern wheels with three positions.

EMAVIT 44: Fine gauge Bearded Needle Machine, for Plain Fabric, Invisible weft, and fancy tucking by divided presser wheels.

emavit

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Sole Agents for United States and Canada:

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Warp Knitting

Knitted Fishing Nets Made in E. Germany

VIENNA, Austria — Knitted nets instead of knotted nets that do not run are the latest in East German fishing. Chief advantages are a saving in material and a reduction of weight and water resistance.

The nets are produced on Raschel machines at the Apolda Knitting Machine Works in East Germany. From the same quantity of material knitted nets attain a surface up to 25 per cent larger than that of knotted nets. The material is Dedoron-Cord-Silk Nm 34/12 with meshes ranging in diameter from 0.234 inches to 1.17 inches. Dedoron is the trade name for an East German synthetic fiber.

The running of ladders is prevented by the treatment of the nets with latex. Experiments are presently being carried out to develop a method for the thermal fixing of meshes or for the chemical fixing by means of the soluble polyamid Mirasol.

The nets presently produced in East Germany have been de-

veloped for weir-basket and cutter fishing. East Germany's annual requirements for 0.234 inch to 1.17 inch nets is 5 tons for inland water fishing and 15 tons for coastal water fishing.

Production of knitted nets for pelagic fishing is still in the experimental stage. However, it is believed that the experiments will soon come to a successful end. East Germany's requirements for pelagic fishing nets in the above size range is estimated at 25-30 tons a year.

Chemstrand Sets Up Tricot Standards

A quality standards program for 40-denier tricot fabrics and finished garments made with Chemstrand nylon was announced by R. H. Born, director of merchandising for the Chemstrand Corporation.

The new standard for 40-denier tricot fabrics are as follows: square yards per pound, 6.00 maximum; wales per inch, 48 minimum; course per inch, 48 minimum; bursting strength, dry: 100 lbs. minimum, wet: 75 lbs. minimum; dimensional change, 3.5 per cent each direc-

tion maximum; washability, at 120°F.-Min.

The fabrics must meet the full AATCC colorfastness tests:

Laundering (Test 1A) — Alteration in Shade, Class 4, Minimum; Staining, Class 4, Minimum.

Crocking — Dry, Class 4 Minimum; Wet, Class 3, Minimum.

Perspiration — Alteration in Shade, Class 3 Minimum; Staining, Class 3 Minimum.

Light — L3, 10 Hrs., Minimum.

On the finished garment shadow panel should be used and where used must be made of Type 66 nylon tricot. The lace trim must be made of quality Type 66 nylon.

Each original seam shall possess a bursting strength of at least 85 lbs. (U.S. Testing Co. method.)

Type 66 nylon thread must be used.

In order to implement and maintain its quality standards program Chemstrand will make a check of all garments coming under the program prior to their receiving clearance from the company. Periodic checks will also be made at the retail level.

Financing

C.I.T. Announces Leasing Program

C.I.T. Leasing Corporation, machinery and equipment leasing affiliate of C.I.T. Corporation, has expanded its operations nationally into the textile machinery field, Thomas E. Lenihan, president, announced.

"C.I.T. Leasing has taken this action to meet the demand of those companies that wish to acquire income-producing equipment through leasing," Lenihan said. "The growth of the industry has created the need for additional new textile machinery, as well as the means for its acquisition."

The company will offer leasing plans designed to the special requirements of the textile industry with terms from five to 10 years, Lenihan said. Individual leasing programs will be tailored to the specific needs of management, he added.

"Executives who do not wish to tie up too much of their firms' working capital in machinery and equipment will want to consider leasing," the C.I.T. executive said.

KNITTING ARITHMETIC

the right source = the right yarn . . .

Representing . . .



101 West 31 St., New York 1, N. Y.
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AMERICAN THREAD COMPANY =

Star Spun Turbo Orlon — Dyed and Natural

CAMDEN YARNS, INC. =

Finest Quality Wool Spun Yarns

OSCAR HEMMERICH CORPORATION =

Texturized Yarns for Ban-Lon Garments and Fabrics

HEMMERICH CORPORATION =

Textured Yarn — Specializing in Helenca SW
(Crepe Type)

BECK-KLEIMAN =

Worsted Yarns — Dyed and Natural

Especially for — Spring Knitwear



NEW U. S. MODEL 718-K Blind Stitch Machine

For all felling operations on ladies', children's and men's jersey and light weight or medium weight knit outerwear and sportswear where a 2 to 1 ratio or 1 to 1 ratio stitch is desired. Performs all felling operations on collars, facings and sleeves. Knitwear manufacturers are instantly enthusiastic at its performance.

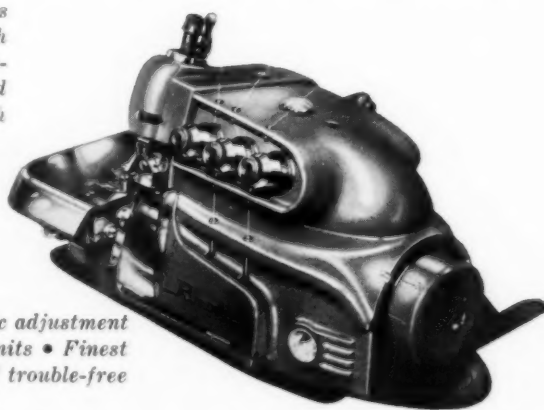
Get the best — get a U. S. Blind Stitch Machine

The most versatile Overlock Machine on the market today — *Rimoldi* class 27 has these exclusive features for all operations

- **Straight Needle** — less breakage, better stitch control, less cost, no puncturing of material.
- **Extra high lift** combined with straight needle assures perfect stitch formation on bulky materials.
- **Fully Automatic Lubrication**—3 quarts of oil pumped throughout the machine every minute.
- **Push-button stitch length control** gives you the advantage of changing number of stitches per inch without the need of changing cams.
- **Automatic adjustment of differential** — when changing from bulky to light fabric, there is no need to change cams. (Differential can be adjusted even when machine is in operation by knee control — available on request.)
- **Quickest threading**—completely from front of the machine.
- **Constant Stitch Control**—due to micromatic adjustment of tension discs.
- **Works perfectly** on heaviest or lightest Knits
- **Finest Workmanship** combined with finest materials assure years of trouble-free performance.

**There are Rimoldi overlock machines for every hemming, over-
edging, seaming, joining and gathering operation.**

Speed up to 6,000 stitches per minute.



U. S. BLIND STITCH MACHINE CORP.

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Lackawanna 4-9144

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527, Belmont,
5-5369S. Dunn & So
E. Broad St., F
9-3770

Rep

Equipment Firms

Joseph Kopelowitz, Inc. Will Move To Maspeth

Joseph Kopelowitz, Inc. is moving into a 15,000 square foot one-story brick building at 54-46 Flushing Ave., Maspeth, New York.

The entire operation for the Mestre Flat Machine, Model "H-L-J", manufactured in Spain, which the firm represents, will be in the building. The executive and accounting offices, which have been decorated by Ronnie Brahms, also will be at the new address.

The move has been accompanied by an increase in personnel in the sales, service and bookkeeping departments.

The purchase of the larger quarters, as well as the increase in personnel, has been necessitated by the increase in the firm's main business of buying and selling used knitting machinery. A special mechanic has been hired to work exclusively on Wildman Jacquard LH, LA and TJ machines.

Hanns Wirth Will Head Three Needle Suppliers

Hanns L. Wirth has been elected president of Alfred Hofmann Needle Works, Inc., Laconia Cooper Sales Corp. and Needle Sales Corp. Richard E. Eppler, Sr. made the announcement after a board meeting on October 23, at which time he retired as president of the above corporations and was elected chairman of the board.

Alfred Hofmann Needle Works, Inc. is the exclusive selling agent in the U. S. of Groz-Beckert needles made in Western Germany. Laconia Cooper Sales Corp. is the distributor of latch needles manufactured by Laconia Needle Mfg. Co., Inc., Laconia, New Hampshire; and Needle Sales Corp. is the distributor for Groz-Beckert needles in the Metropolitan, New York area and northern New Jersey.

Hy Berlin Celebrates 25th Year With Eastman

Hy Berlin, district manager for the Brooklyn and Long Island territories of Eastman Machine Company, recently

celebrated his 25th year with the company at a dinner given in his honor by Sol Redlich, vice president, and The New York City office staff.

Mr. Berlin joined the company in 1936 as an errand boy, progressed to supply department clerk, to mechanic, to salesman in 1941, and then to his present post.

Mr. Berlin was given a dinner party in his honor by Sol Redlich, vice-president of Eastman Machine Company

District Associations

Pekoma Supports Class

PHILADELPHIA, Pa.—The Knitted Outerwear Manufacturers Association, Pennsylvania District, supported a one-day seminar for the small businessman sponsored by the Chamber of Commerce of Greater Philadelphia on November 15.

Sewing

New Taping Machine Offered By Union Special

CHICAGO, Ill. — A new machine designed primarily for the first operation of taping and

attaching collars, while simultaneously trimming, to children's and ladies' dresses, blouses, smocks, sportswear and similar garments, has recently been made available by Union Special Machine Company, manufacturer of industrial sewing machines. This unit is said to be another of the bobbinless machines which manufacturers are using in greater numbers on operations which, until a couple of years ago, had been "classified" as requiring a bobbin-type stitch.

This new machine, Union Special Style 51200 BD, is a high-speed, single needle machine that produces the 401 stitch. The bobbinless feature eliminates changing bobbins — no chance of running out of thread in the middle of the operation.

The trimmer is bottom driven and is located directly to the side and to the right of the needle to facilitate turning corners, if required. It is adjustable for a trimming margin of 1/8 inch to 1/4 inch. The hinged presser foot has a tube guide on the toe to lead in a bias tape.

(Continued on Page 70)

BELMONT THROWING CORP.

BELMONT, NORTH CAROLINA

**THE
BIG 3
FOR SMART
KNITTERS**

Harold E. Carr, Sales Manager
Box 527, Belmont, N. C.
Phone 5-5369

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PA 5-7780

John S. Dunn & Son
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Phone 9-3770

R. Frank Lunday
P. O. Box 1154, Charlotte, N.C.
EDison 3-4749

Helanca
Hi-Test Stretch Yarns

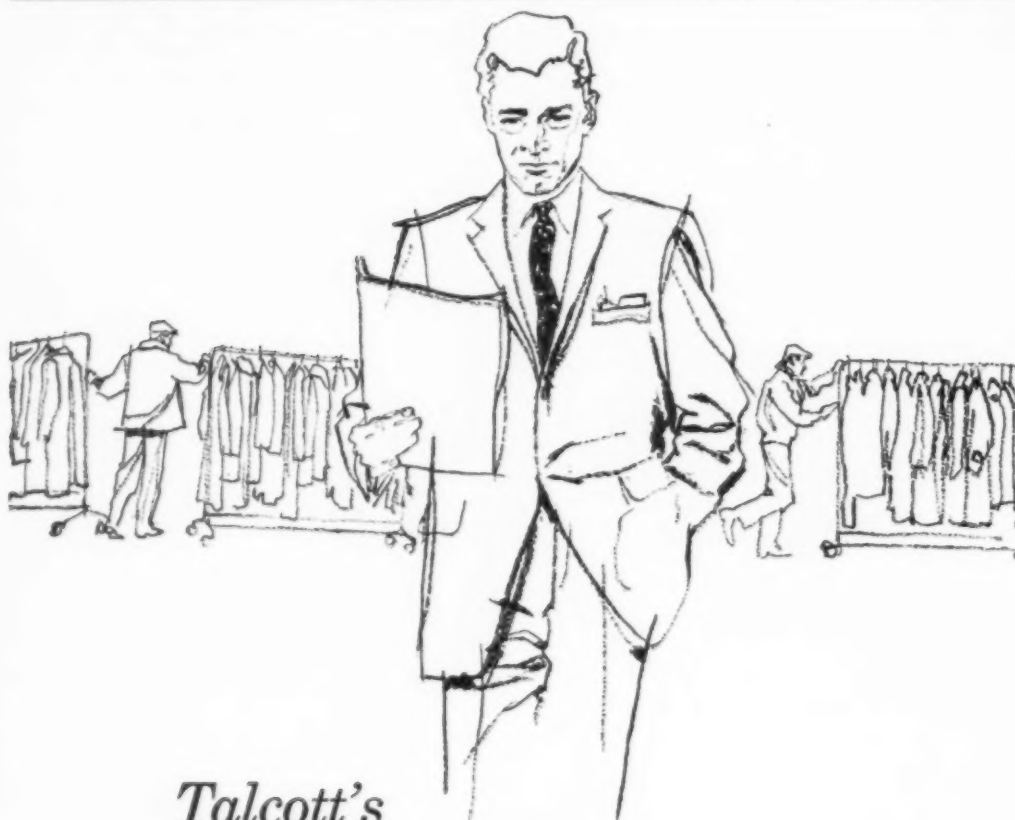
Specially processed for quality Leotards,
Bathing Suit Fabrics, Girdle Fabrics,
etc. In Natural and all colors.

Vision-Lora
An improved
smooth textured yarn
created expressly for Sweaters of
all types, Knitted Fabrics,
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TYPE SW

The Helanca textured yarn with the
Boucle effect particularly designed
for Sweaters of all types.

Represented by **BRANT YARNS Inc.** 1412 Broadway, New York 18 LOnacre 5-3350



Talcott's LOW COST NON-NOTIFICATION FACTORING

**ELIMINATES CREDIT LOSSES
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If you are a manufacturer, wholesaler or dealer selling to retail outlets, here's the plan for you. Talcott does all credit checking and also guarantees you against credit losses. Funds are readily available beyond the usual advances on accounts receivable. You continue your present customer relationship as all payments are made directly to you and the factor is not involved in the collection of your accounts.

Talk to Talcott — the pioneer in Non-Notification Factoring.

For booklet "Four Keys to Business Growth," write to Joseph A. Zeller, James Talcott, Inc., 225 Park Avenue, South, New York 3, New York.



James Talcott, Inc.

225 PARK AVENUE SOUTH, NEW YORK 3, N.Y. ORegon 7-3000

Other offices or subsidiaries:

CHICAGO • DETROIT • MINNEAPOLIS • BOSTON • ATLANTA • LOS ANGELES • SAN FRANCISCO

Sewing

Union Special Offers Bobbinless Machines

CHICAGO, Ill., — Union Special Machine Company, manufacturer of industrial sewing machines, is offering a bobbinless sewing machine and a new unit for simultaneously trimming, binding and seaming quilted robes, housecoats, men's jackets and other garments of medium to medium-heavy-weight materials.

Union Special Style 51500 BT is a two-needle, high-lift machine producing a bobbinless stitch Type 401 and designed with a top feed, throw-out trimmer and a right angle binder with a sewing capacity of 7/32nds of an inch. A new binder and binder mounting bracket permits leading the binding into the binder from the front of the machine at the level of the cloth plate so that there is no distortion of the binding.

The binder handles a range of types and weights of bias binding and can be moved out of position and the machine used for plain seaming with one or two needles. Or, by removing the left needle the machine can be used also for single needle binding.

The machine is equipped with a trimming device which incorporates a throw-out knife mechanism. Threading is simplified by the throw-out knife feature, the slide-away binder and a looper breakdown connection. Lightweight parts and needle bearings contribute to speeds up to 4500 stitches per minute.

The new high speed, bobbinless machine, Union Special Style 54400K, equipped with the Lewis V-Knife pinker produces the double locked stitch Type 401 for dresses, skirts, slips, shirtwaists, blouses, uniforms, robes, slacks and other garments.

The machine pinks at high speed without bobbin change. It features a built-in chip disposal chute to carry the chips away from the knife area below the cloth plate, to the regular chip chute on the table board.

It operates at speeds up to 5500 stitches per minute and handles light to medium weight materials.

Unit Makes Table-Slitter Multiple Ribbon Cutter

Any make of knit goods table-slitter can be turned into a temporary multiple-ribbon cutter with the new Eastman ribbon cutting attachment according to the company.

The fixture is mounted as a unit on top of the slitter and holds up to ten rolls, from which any number of ribbons can be drawn through a channel-guide measured on the built-in ruler to any length, and fed to the knife.

The unit is aluminum and fitted with nylon rollers.

Measuring

Newmark To Demonstrate Fiber Diagram Machine

LONDON, England—Newmark Instruments, Ltd., licensee of the British Wool Industries Research Association, will demonstrate its new W.I.R.A. fiber diagram machine in the U. S. and possibly in Canada in January.

The machine measures fiber lengths in natural and man-made fiber tops and produces a permanent fiber diagram on paper in six to eight minutes.



Members of Knitted Outerwear Manufacturers Assn., Pennsylvania District, get together for United Fund organizational dinner in Philadelphia to help spark contributions. Left to right, seated Ingram Bergman, a community endeavor chairman for PEKOMA and president of Bergman Knitting Mills; Robert Saligman, PEKOMA United Fund chairman and president of Queen Knitting Mills; Norman Lazarus, PEKOMA's counsel. Left to right, standing, Joseph Specker, PEKOMA president and vice president of Robert Bruce, Inc.; Dr. Edward B. Shils, PEKOMA executive secretary, and Joseph Schwartz, manager, Knit Goods Workers Union.

The results are in no way influenced by the operator.

The apparatus consists of a sealing unit in which the sample

is sealed to a piece of plastic tape and the machine in which the fibers are measured. Both units operate off the main elec-

trical supply.

The U. S. agent is Stellamcor Inc., 10 East 43rd Street.

Trade Drives

PEKOMA Fund Drive Seen Reaching Its Goal

PHILADELPHIA, Pa.—The Knitted Outerwear Manufacturers Assn. will hold a regular membership meeting November 20 at the Old Original Bookbinder Restaurant.

Dr. Edward B. Shils, executive secretary of PEKOMA also announced that he expected the H. H. Cohen Scholarship Fund goal of \$10,000 to be reached by the December 31 deadline. He said corporate gifts are 10 per cent higher and employee solicitation much better organized than in 1960 last year.

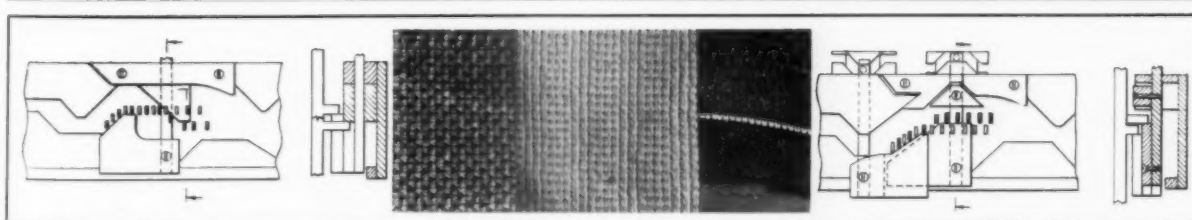
Brandwein Named Head Of United CP Fund Drive

Edward A. Brandwein, administrative secretary, National Knitted Outerwear Association, has accepted the chairmanship of the knitted outerwear division of the fund-raising campaign of United Cerebral Palsy of New York City.

SPECIAL ANNOUNCEMENT

TO OWNERS OF TA, TAI, TJI MACHINES

NOW . . . YOU CAN PRODUCE INNUMERABLE TUCKING EFFECTS! ALSO, WHILE THE SELECTION IS ON THE CYLINDER YOU ARE ABLE TO STRIPE ON THE DIAL AS MUCH AS DESIRED!



Pictured above are a few samples of fabric produced by using the cams in combination and singly.

The cams (shown in diagram form) were invented by Merritt Durgy and Edward Kesten, associated with Sampson Knitting Mills, Inc. Research and Development Division.

These cams are now available for purchase with full instructions for installation.

For information regarding details, write or call

SAMSON KNITTING MILLS, INC.

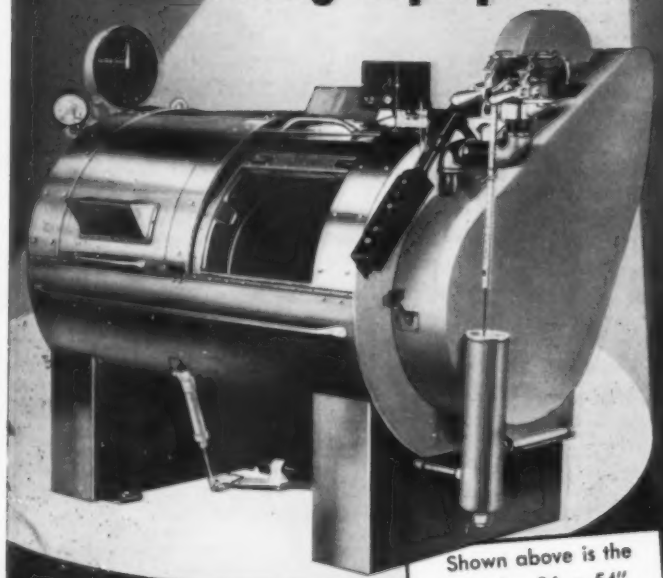
55 CHESTNUT STREET, SO. NORWALK, CONN.

Volunteer 6-3940

In the...
KNIT GOODS Industry
 ...the "Spotlight" is on...

HENRICI

for Laundry-type
 Processing Equipment



Shown above is the
 popular 36 x 54"

HENRICI "Comet"
 stainless steel
Washing Machine
 a real favorite in the
 knit goods trade

Are you, too, now considering laundry machinery for washing and "fulling" your knit goods? If so, you can place full confidence in HENRICI for the right equipment. A factory sales technician will gladly present full details to you anytime, anywhere. No obligations, of course!

Let us give you the full details of how many other leading manufacturers in your own industry have turned to HENRICI for washing, extracting, and drying equipment with the following results:

- (1) Improved quality of knitgoods products.
 - (2) Substantial savings in production costs.
 - (3) Less dependence on outside suppliers.
 - (4) Better plant production control.
 - (5) Stepped-up shipping schedules.
 - (6) More satisfied users of HENRICI specialized wash-room equipment, "geared to the Industry's needs!"
- Write us today for "direct-from-the-factory" prices and details.

HENRICI LAUNDRY MACHINERY CO.

101 Henrici St., Boston 26, Massachusetts

Mill News

William Ross Named By Carter Company

NEEDHAM HEIGHTS, Mass. — William C. Ross has been appointed production manager of The William Carter Company, manufacturers of knitwear, succeeding the late William E. McDaniels. Dallas P. Kindt was named assistant production manager.

Mr. Ross, formerly assistant production manager, joined the company in 1946 as a member of the production planning department. In 1954, he became production operations assistant and in 1956 assistant production manager — operations. He was named assistant production manager in 1960.

Mr. Kindt, superintendent of the company's Gilbertville, Mass., mill since 1953, joined Carter's in 1948 as a member of the standards department at the Springfield, Mass., mill. In 1953, he was appointed to head the production control department there.

Richard P. Reynolds succeeds



WILLIAM C. ROSS

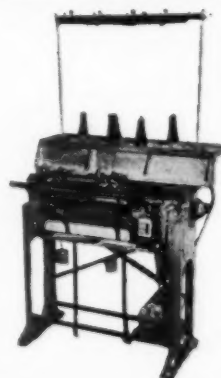
Mr. Kindt as superintendent of the Gilbertville mill.

James Mulcahy has been appointed midwest division sales manager of The William Carter Company, knitwear manufacturers. He succeeds Don Mackeracher who has been appointed head of the West Coast office.

Mr. Mulcahy has been with Carter for the past 13 years, the last eight of which he spent here as assistant manager. Prior to that he had traveled in the West for the company.

(Continued on Next Page)

The AINSLIE "DOUBLE-MASTER" A New High Speed Double-Head Border Machine



Compare
 These
**OUTSTANDING
 AINSLIE Features:**

1. Tough, tool steel beds.
2. Selective racking over 3 needles.
3. Ball bearing carriages.
4. Ainslie springless drop cams.
5. Front auxiliary cams.
6. Quick detachable carriage.
7. Rear, adjustable crank drive.
8. Direct motor drive.
9. Instantaneous braking.
10. Improved stop motion.
11. Variable speed drive.



Since 1900

The AINSLIE high speed double-head machine will make rib, cardigan, and half-cardigan borders in any width up to NINE inches. 8 and 10 gage machines in stock, other popular gages to order.

Call or write Dept. A for full information.

AINSIE KNITTING MACHINE CO.

750 Grand Street EVergreen 7-3497 Brooklyn 11, N. Y.

The William Carter Company has formed a selected products division to merchandise basic underwear categories in the infants', children's and women's lines. Austin S. Callaway has been named manager.

Renee Karel Designs for Bobbie Brooks

CLEVELAND, O. — Renee Karel has been named head designer of knit dresses and coordinates for Bobbie Brooks, Incorporated, manufacturers of knitwear for young adults. The position is a new one.

She was with Bernhard Altman, Inc., as a designer of knit dresses and two-piece sportswear and operated her own studio for the past 10 years, designing for New York City firms. She has been a frequent visitor to the couture fashion showings in Paris each year, and has also toured the West Indies to study style potentialities in fabrics and fashions.

Miss Karel will work one of Bobbie Brooks' New York City design offices at 1407 Broadway.

Bobbie Brooks, Incorporated

rated, manufacturers of apparel for young women, will acquire Stacy Ames, Inc., and Kelly Arden, Inc., New York City dress manufacturers.

Maurice Saltzman, president of Bobbie Brooks, said the acquisition would add approximately \$5,500,000 to sales and increase net profit per share an estimated five per cent.

The purchase is subject to a favorable tax ruling, with a final closing not expected before January. The purchase is on a pooling of interests basis for an undisclosed amount of common stock. Mr. Saltzman said the effect on Bobbie Brooks equity per share would be negligible.

Stacy Ames and Kelly Arden will continue to sell under their own labels and will operate semi-autonomously.

Stacy Ames manufactures career girl dresses from size 8 through 20, and Kelly Arden produces junior petite dresses.

Sponsors Motion Picture

PHILADELPHIA, Pa.—Sun clothes, Inc., is among seven firms, here, producing a musical motion picture of Philadelphia to be shown in the U. S.



HEMCO
sportswear

for
men
and
boys

■ Offering a full line of
Terry Jackets, Beach Jackets,
Cabana Sets, Deck Pants
and Surfers.

■ Also, a complete line of WALK SHORTS


*See our original
1962 styles first!*

**HENDEL
MFG. CO. INC.**
New London, Conn.
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New York Sales Office: 1270 Broadway
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TO *Color-Correct Dyeing* OF

ALL KNITTED FABRICS (Synthetics & Blends)

Keystone special processes
assure color uniformity,
quality and hand
that have set a
new industry
standard.

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MEIMAN MILLS, INC.

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SPINNERS OF

WOOLEN SYSTEM YARNS

BLENDS OF LAMB'S WOOL/ORLON®

100% SHETLAND—100% LAMB'S WOOL

GARNETTED ORLON®



YARNS SOLD THROUGH

MEIMAN & CO., INC.

350 Fifth Avenue
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OXford 5-5825

Philadelphia — Paul Silver — CApital 4-3461
Framingham, Mass.—877-3030

Mill News

Beaunit Mills Appoints Three Vice Presidents

Beaunit Mills, Inc., has named Joseph Buda, vice president, elastic fabrics operations; Harry M. Fain, vice president, knitted fabrics operations, and R. C. Reinhardt, vice president, textile division manufacturing.

Mr. Buda has been manager of the elastic fabrics operations since 1954. Prior to that he was manager of the plant at Cohoes, N. Y. He joined Beaunit in 1949.

Mr. Fain has been general sales manager of the knitting operations. He has been with Beaunit since 1933 in executive sales capacities in the knit fabrics department.

Mr. Reinhardt, of Gastonia, N. C., was formerly plant manager of the tricot mill at Fountain Inn, S. C.

Healthknit Projects 10% Increase In Sales Total

New products, the largest advertising campaign in its history, and better over-all distribution should boost sales of Healthknit's line of cotton knitwear at least

10 per cent during 1962, J. E. Jeter, vice president of the Healthknit Division of Standard Knitting Mills, told a sales meeting here. He said September sales were up 15 per cent over September a year ago and would continue strong through at least the first quarter of 1962.

Use of Radio

"The use of network radio for the first time by Healthknit and our new ad schedule gives our promotional program continuity, frequency, localization, and personality," Mr. Jeter said.

New products added to the line of men's and boys' underwear, socks, sweatshirts, children's play clothes, and sleepwear include a men's T-shirt with a newly patented full freedom sleeve.

Brentwood Sportswear Appoints Representative

PHILADELPHIA, Pa.—Larry Kitchens has joined Brentwood Sportswear as sales representative after 15 years with Lansburgh's Department Store, Washington, D. C., as men's sportswear buyer.

He will cover North and South Carolina and Virginia.

DUBIED

FULL AUTOMATIC MACHINE WITH TWIN CARRIAGES

Needlebeds in 2 sections of 24", 30" and 34" width each.

HIGH PRODUCTION MACHINE FOR
FANCY TRIMMINGS, COLLARS OR
RIBBED BOTTOMS AND CUFFS.

Minimum loss of floor space.

EASY AND ECONOMICAL TO OPERATE.

Direct threading of yarn from tension to feeders.

PIECES OF UNIFORM LENGTH. REG-
ULARITY OF STITCHES.

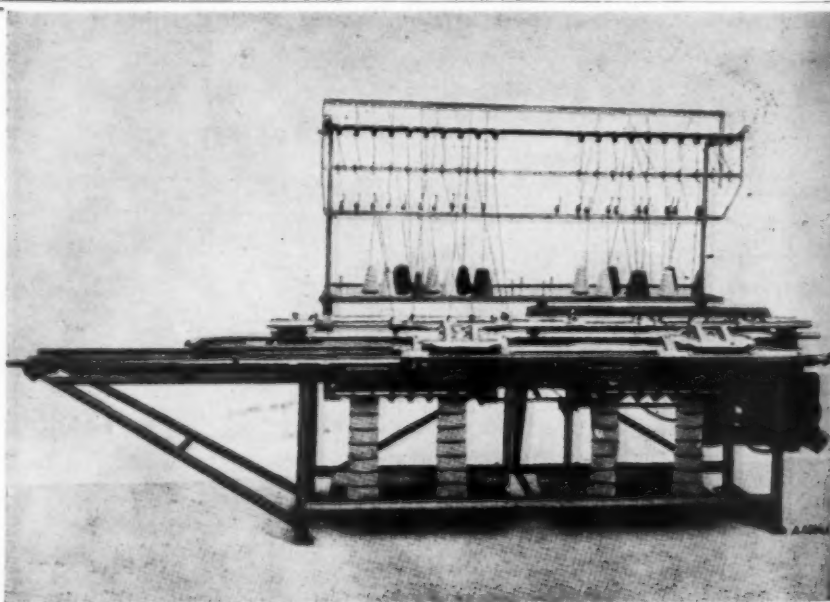
Two-speed motor for knitting of loose course.

SECURITY OF KNITTING. LESS
STRAIN ON WEAK YARNS.

D B — with high and low butt needles.

D S B — with independent high or low butt selection.

D R B — with independent high or low butt selection
and stitch transfer from front to rear and
from rear to front.



DUBIED MACHINERY CO.

21-31 46th Ave., Long Island City 1, N. Y.

Ravenswood 9-6361

Obituaries

William D. MacNeill, 84: Founder Of Dye Company

PHILADELPHIA, Pa.—Funeral services for William D. MacNeill, chairman of the board and founder of the Caledonian Dye Works, were held November 9. He was 84.

Although retired for the last few years, Mr. MacNeill remained a consultant to the firm.

Ernest T. Mead; Was Wyndmoor Executive

Services were held November 10 for Ernest T. Mead, vice-president of Wyndmoor Knitting Mills, Elizabeth, N. J., who died on the golf course, at the Westchester Country Club, Rye, N.Y.

The services were held at the Fairchild Funeral Home, 951 Atlantic Avenue, Brooklyn.

Wyndmoor Knitting Mills was recently formed with Mr. Mead as a principal. He had been in business under the sales agency names of Mead, Valenta & Thomson, Inc., and Kresh, Mead & Koch. Before that he was with Curtis Knitting Mills and Security Mills.

He is survived by a son, Emerson T., president of Smith-Corona Typewriter Co., a daughter, Mrs. Philip Clarke, of Hinsdale, Ill., and a sister, Mrs. William F. Melka, of Brooklyn.

Labeling

Firm Ordered To Drop Misleading Fiber Label

WASHINGTON, D. C.—Elliot Import Corp. and Elliot Knitwear, Inc., 105 Madison Avenue, New York City, have been ordered by the Federal Trade Commission to stop using the term Cashmora on the labels of wool products that contain no cashmere.

The order provides however, that the term may be used on woollens containing a substantial amount of cashmere if accompanied by a clear and conspicuous disclosure of the percentage by weight of the cashmere content.

The Cashmora sweaters are made in Japan of 30 per cent angora rabbit and 70 per cent lamb's wool.

When first marketed, the sweaters bearing the Cashmora label had aroused wide trade protests.

RELIABILITY

For over a quarter of a century, we've been bringing quality products, backed by incomparable service and expert advice, to all our customers. Take advantage of this reliability by calling us now!

**PREMIER FRENCH ZEPHYR 1/20's to 2/60's
ZEPHYR HEATHERS • FRENCH SPUN 11 1/2's
TEXTURALIZED® NYLON**

**For High Quality BAN-LON® Products
TOW-HUE TURBO ORLON® ACRYLIC
6 Denier Orlon Dyed on Cones
SUPERIOR 7 STOCK MOHAIR BLENDS**

The IRVING COHEN YARN CORP.

French and American Spun Yarns

IT COSTS LESS TO USE THE BEST

130 Palmetto Street

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IF you're not

using these

most advanced

machines, here are

**BRAND
NEW
OPPORTUNITIES**

to cut costs!

**TRY any or all
in your own plant.**

► EASTMAN "KNIFE-SAVER"® STRAIGHT KNIFE

Razor-keen, long-bevel edge SLICES through stretchy knit-goods, laminates, etc., without distortion . . . straightest sharpening in the business . . . unbelievable knife savings.

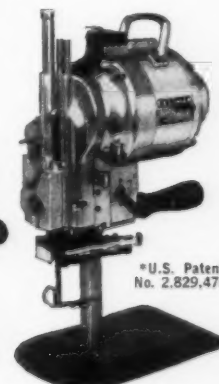
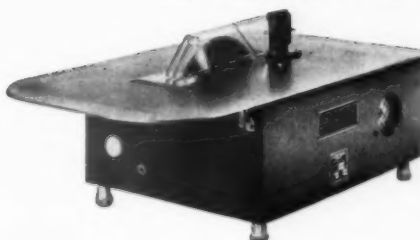
► EASTMAN "LIGHTNING"® ROUND KNIFE

Keeps yarns, etc., from getting behind the knife or into the gears . . . razor-keen sharpening . . . most powerful . . . finest built.

► EASTMAN TABLE-SLITTER

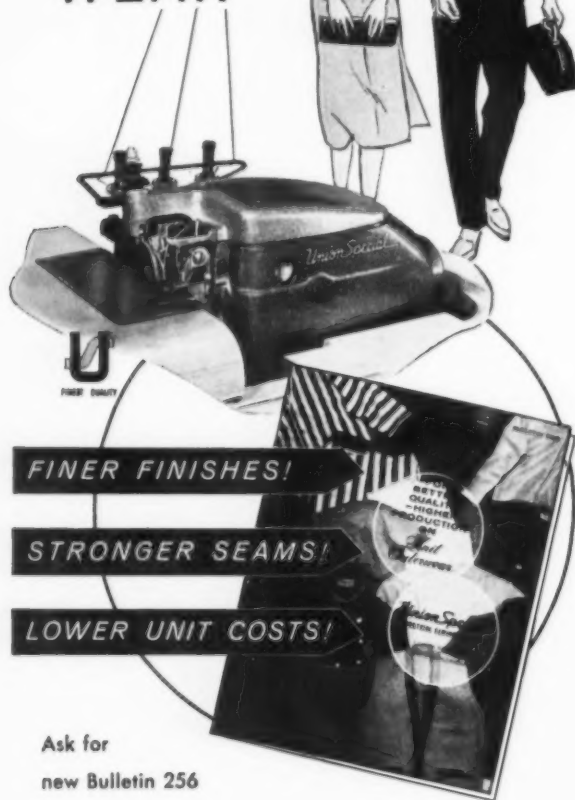
New! . . . big 7 1/2" knife . . . faster cutting . . . time-saving, money-saving . . . many new and exclusive features for better operation.

**EASTMAN MACHINE COMPANY
BUFFALO 3, N. Y.
Area Code 716/TL6-2200**



*U.S. Patent
No. 2,829,474

NOW! FOR MANUFACTURERS OF KNIT OUTERWEAR and SPORTS- WEAR



Every maker of KNIT OUTERWEAR and SPORTSWEAR will want a copy of this new guide to finer finishing... better seam construction... and lower costs offered by Union Special. Styles of sewing machines to use, seam specifications, and production operations are described and illustrated for a wide variety of sweaters, swim suits, dresses, ladies' suits, and other knitwear. Union Special's line is complete—machines for every purpose! Ask for a copy of new Bulletin 256. See our nearest representative or write. UNION SPECIAL MACHINE COMPANY, 405 N. Franklin Street, Chicago 10, Illinois.

Union Special
UNION SPECIAL • LEWIS • COLUMBIA
INDUSTRIAL SEWING MACHINES

Positive Feeding Of Knitting Yarn

(Continued from Page 7)

goods you are unable to control and so antagonize the customer.

A knitting control system of this or any other type is not something you will install because of lectures or articles. There has been much published, both in this country and abroad, about this important subject, but to assess its usefulness in your own particular circumstances you must go into the mill. Look at your processes from yarn to warehouse and see how much of your labor and therefore costs are taken by such processes as:

1. Sampling,
2. Setting up machines for new ranges or repeat orders,
3. Adjusting machines for quality,
4. Inspecting for length or width,
5. Pairing,
6. Stock keeping of too short, or too long garments,
7. Answering customer complaints of such things as excessive shrinkage,
8. Boarding up or down

garments knitted incorrectly.

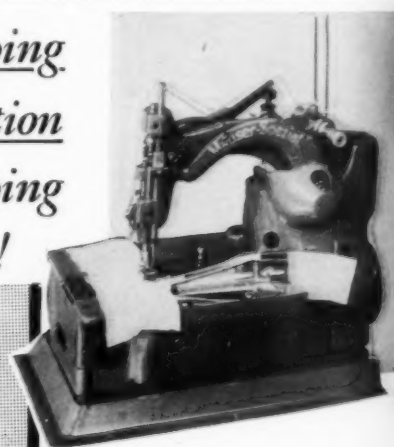
This list is probably not exhaustive, but in these processes along a modern knitting control system based on Positive Feed will bring savings as well as increasing output in certain cases.

I would like to finish by quoting a passage from the foremost historian of our industry, W. Felkin. In his book "History of Machine Wrought Hosiery & Lace Manufacturers" published in 1867, he states when comparing the Saxon and English knitting customs: — "In England the governing principle of payment is by width, in Saxony by length. By manipulation in boarding and trimming, the goods are brought to somewhat like the required size. In this system the goods will vary, and the wale is liable to be injured, and the qualities after all must be assorted from each other of goods even made under the same name."

I hope that 100 years from now when giving a lecture, someone quoting from a modern historian will not be saying the same thing about our present industry.

Mock Looping at a Fraction of Looping Cost!

MAUSER SINGLE NEEDLE CHAIN STITCH SEWING MACHINE



- Sewing that looks like looping for Collars
- Sewing Double Borders on garments in a single operation
- Produces true elastic seam. Used on fine gauge as well as bulky materials—Cottons, Woolens and all Synthetics
- Can be operated by semi-skilled help with only a few minutes of instructions

MONTROSE
SUPPLY & EQUIPMENT CO.
div. of Montrose Oil & Belting Co., Inc.

71 N. 6th St., Brooklyn 11, N. Y.

STagg 2-7929

Cotton Knits

Conference Learns Of Stretch Cottons

WASHINGTON, D. C.—The cotton and chemical industries may be on the threshold of a development which will be as important as the development of wash-wear cottons ten years ago, scientists at the National Cotton Council's tenth annual Chemical Finishing Conference have been told today.

Cotton fabrics with durable loft, warmth and recoverable stretch have been produced in the laboratory and are headed for commercial development, according to conference Chairman, Godfrey S. Rockefeller, president, Cranston Print Works, New York City.

Research in finishing has shown that chemicals used to set a fabric in a flat, wrinkle-resistant fabric also can be used to produce cottons having high stretch, durable loft, bulk, texture, warmth and other highly desirable properties.

One of the most promising

methods of making the cottons involves resin treating highly twisted cotton yarns, curing, and then reverse twisting. This produces a kinked yarn which can be knitted or woven into garments having high recoverable stretch.

Some of the markets for stretch cottons he listed are knit swim suits, dresses, sweaters and shirts.

Zantrel And Cotton Blends Are Studied

Blends of Zantrel and carded cotton are receiving attention in the development work of 25 textile mills, according to a survey by Hartford Fibres Company, a division of Bigelow-Sanford, Inc., makers of the fiber.

According to the firm, the ability to provide the effect of mill men are stressing the fiber's combed cotton fabrics in 50-50 blends with carded cotton, at a price close to that of all-cotton fabrics.

Helping the price factor, mill men note, is the reduction of waste in spinning and the higher

(Continued on Page 79)

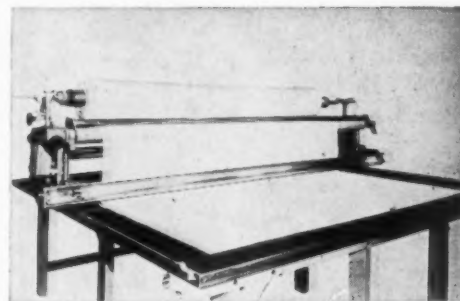
HOW TO SPREAD ANY OPEN ROLLED FABRIC WITHOUT TENSION

Flat Knits

Tubular Knits, Slit and Opened

Open Tricot Knits

Foam Laminates



CRA CHAMPION

Spreads without stretch or tension. Slits automatically across width of goods. One-man operation. Available in 54" to 120" widths.

Write For Details



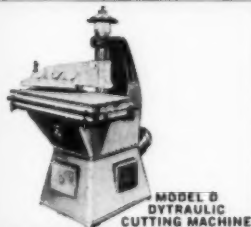
CUTTING ROOM APPLIANCES CORP.

1134 Broadway, New York 10, N. Y. • MU 5-9144

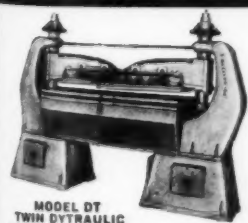
Manufacturers of CRA Electric and Hand Cloth Spreaders for Woven and Tubular Knit Fabrics, CRA Metal Sectional Cutting Tables; CRA Automatic Thread Trimmers, CRA Cloth Measuring and Inspecting Machines.

DYTRAULIC

The Most Versatile Line of DIE CUTTING Machines by HERMAN SCHWABE, Inc.



MADE IN U.S.A.



MODEL DT TWIN DYTRAULIC CUTTING MACHINE

PROVEN BEST IN LEADING KNITTING MILLS THROUGHOUT THE COUNTRY

So simple and easy to operate that even unskilled workers can cut knitted wear with a dependable SCHWABE Cutting Machine.

SMOOTH Hydraulic power assures accurate and uniform cutting of every garment.

Investigate the advantages of
DIE CUTTING

Call or write for details today.



MODEL DS SIDE OPERATED CUTTING MACHINE



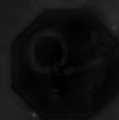
HERMAN SCHWABE, INC.

189-197 S. PORTLAND AVE. BROOKLYN 17, N. Y. Sterling 3-7442-3-4

CABLE ADDRESS: SCHWABESHOE

Paul Whiting Corporation

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PRESENTS

Zelda



A Fabulous Cool Blend
of ZEFRAN® and
IMPORTED LINEN

A New Yarn Exclusively Designed for High-Style
Ladies' Sweaters, Knitted Dresses and Suits

SPECIALTY ORLON YARNS for sweaters and high-
styled knits

WORSTED YARNS for ladies' and men's sweaters and
knitted fabrics

ROVING YARNS for the Italian look

Individual yarns designed for your own individual requirements

Represented by:

BRANT YARNS, Inc. 1412 Broadway, New York 18 LOnacre 5-3350

(ZEFRAN is the registered trademark of Duw Chemical Corp.)

yarn
This is
cotton
man,
picking
often
including
the
damages
premium
that the
mally
proach

Stre

Softly

In Str

This
mother
their cl
sleepers
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yarn uniformity with Zantrel. This is particularly true in carded cotton according to a spokesman, in which severe cotton picking and ginning methods often impair staple fiber quality, including much short fiber reaching the mill. The problem of damaged cotton has put such a premium on better cotton grades that the qualities of cotton normally used in carded goods approach the price of Zantrel.

Stretch Knits

Softly - Napped Sleepers In Stretch Infants' Wear

This year for the first time mothers will be able to tuck their children into bed in a soft sleeper that is stretchable for long-range fit and richly napped. The garment is in a newly developed two-way stretch fabric knitted of 60 per cent Orlon in the face and 40 per cent stretch nylon backing.

The fabric is making its debut in two styles — a sleeper trimmed with a tiny kitten applique, that snaps all the way down the front for easy diaper

changes; and a similar style with a hood for extra warmth. Both come in pale pastels such as pink, blue, maize, and in white, and are washable by either hand or machine.

The sleeper, Kud-I-bunny, will fit a child up to nine months; the hooded garment, Snowbunny, is for children of from nine to 18 months. The garments are by Charles Pindyck in fabric by Stretch Fabrics, Inc. They retailed at about six and seven dollars.

Packaging

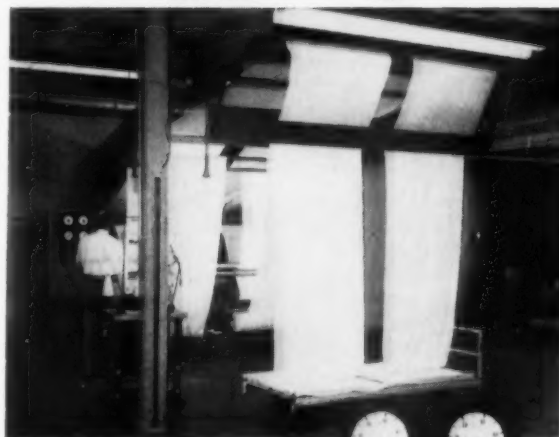
Develop Polypropylene For High-Speed Machines

PHILADELPHIA, Pa. — A new high slip polypropylene film designed especially for high-speed packaging machines has been developed by AviSun Corporation.

Called Olefan A-3, the film can be run on packaging machinery.

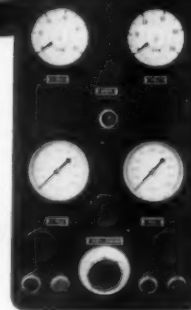
In the textile soft goods field, Olefan A-3 is being market tested as a packaging film for socks, handkerchiefs, hosiery, slips and sweaters.

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NEW TEXTILE PATENTS

PROCESS FOR MAKING UNIFORMLY ORIENTED YARN BY PASSAGE THROUGH LIQUID DRAG BATH—A process of melt spinning and stretching filaments by passing them through a liquid drag bath, invented by Joseph J. Kilian, Covington, Va., has been granted U.S. Patent No. 3,002,804. The patent has been assigned by the inventor to E. I. du Pont de Nemours and Company, Wilmington, Del.

The new process for preparing uniformly oriented textile yarn consists of extruding a molten synthetic linear polymer from a spinneret to form filaments. The filaments are quenched to provide a solid structure by cooling them to a temperature at least 50 degrees Centigrade below their melting point. The filaments are subjected to a continuously increasing drawing tension by being passed downwardly through a liquid drag bath. The bath is maintained at a temperature to preserve the solid structure.

The filaments are withdrawn from the bath at a speed of at least 750 yards per minute and the tension is at least about 1.0 gram per denier as the filaments leave the bath.

METHOD FOR MAKING THREADS OF FOAMED POLYURETHANE—A method of producing threads of foamed material, invented by Werner Simon of Wuppertal-Vohwinkel, Germany, has been granted U.S. Patent No. 3,001,359, which the inventor has assigned to Ceolon-Gesellschaft K.E. Merckle, Leonberg, Wurttemberg, Germany.

The new method for making threads of cellular polyurethane plastic comprises winding a plastic sheet of the thread thickness into a roll of a plurality of layers which contact each other. The layers are simultaneously secured together with a binder, thereby forming a rigid roll of the cellular material. The roll is then cut in a direction perpendicular to the axis of the roll

to the desired width of thread to form a plurality of wound strips, the cutting exposing the pores in the thread. Thereafter the strips are unwound into threads.

METHOD PATENTED FOR PRODUCING TEXTURED YARN—A method and apparatus for processing yarn, invented by Cyril G. Evans, Clemson, S. C., has been granted U.S. Patent No. 3,001,355, which the inventor has assigned to Deering Research Corporation, Pendleton, S. C.

The new method of producing a textured yarn comprises passing a thermoplastic continuous filament yarn from a supply source through a heating zone and past a substantially abrupt twist arresting point to a twister-winder takeup device. In the heating zone the yarn is heated to a temperature such that the temperature of the yarn on the outflow side of the twist arresting point is between the first and second order transition points for the yarn for a distance beyond the twist arresting point which is relatively short compared to the

yarn length between the twist arresting point and the twister-winder takeup. The real twist is permitted to freely feed backwardly substantially unimpeded into the relatively short length of yarn adjacent to the twist arresting point and maintaining the relatively short length of yarn free and unrestricted in immediate subsequent flow relation adjacent the twist arresting point.

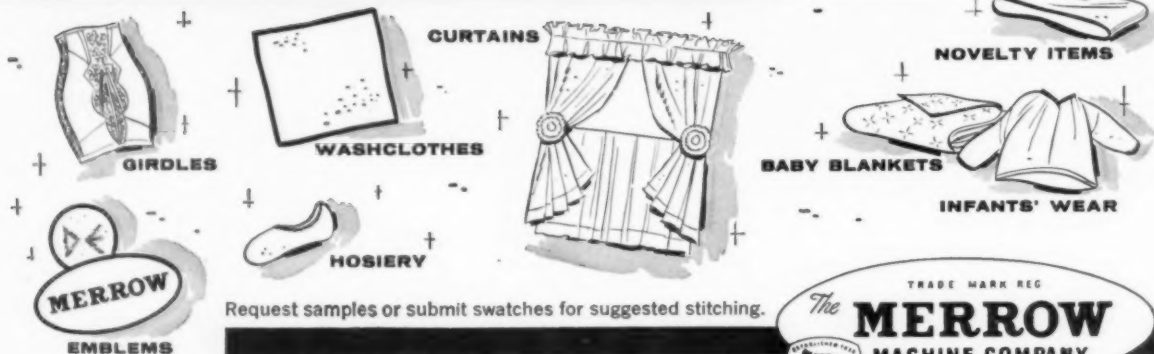
PROCESS FOR CONTROLLED RELAXATION OF FRESHLY DRAWN NYLON—A process which permits the controlled relaxation of freshly drawn nylon invented by Gilbert Pitzl of Chattanooga, Tennessee, has been granted U.S. Patent No. 3,003,222, which the inventor has assigned to E. I. du Pont de Nemours & Company, Wilmington, Del.

The new process comprises elongating a substantially undrawn polyamide yarn to several times its initial length followed immediately by relaxing the yarn in an amount between about 7 and 12 per cent, based on the length of the elongated yarn prior to relaxation.

(Continued on Next Page)

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The relaxed yarn is then wound into a stable package at a tension low enough to avoid substantial elongation of the yarn during winding on the package.

AUTOMATIC SELECTIVE DOFFING DEVICE PATENTED FOR KNITWEAR LOOPING MACHINES—An automatic selective doffing device for knitwear looping machines, invented by Howard L. Beamon of Winston-Salem, N. C., has been granted U.S. Patent No. 2,999,470, which the inventor has assigned to Hanes Hosiery Mills Company, Winston-Salem, N. C.

The patent covers, in combination, a doffing attachment and a knitwear looping machine having a revolvable dial the periphery of which is equipped with a plurality of points. The attachment includes a retractable stripper element adjacent the points for removing looped articles from the points as the dial revolves. A cam is used for retracting the stripper element. An automatically operative mechanism actuates the cam means to retract the stripper element at predetermined intervals to permit selected looped articles to remain on the points for subsequent removal from them.

METHOD FOR PRODUCING ARTIFICIAL FILAMENTS, YARNS AND THREADS—A new process for the production of artificial filaments, yarns and threads, invented by John H. Givens, Harry R. Hardy, and David N. Tyler, all of Coventry, England, has been granted U.S. Patent No. 3,001,851. The inventors have assigned the patent to Courtaulds Limited, London, England.

The new method for making high tenacity rayon filaments comprises extruding viscose containing at least 0.5 per cent of a modifier which is capable of producing filaments having a thick skin, from the viscose, into an aqueous acid coagulating bath to form filaments. The filaments are immediately stretched, while they are still wet, in a series of at least five stretching steps. In each stretching step the filaments are stretched from 4 to 20 per cent. Between each of the stretching steps there is a relaxing step during which the filaments are

permitted to contract by an amount not exceeding 4 per cent. The total stretch imparted to the filaments during the series of stretching and relaxing steps is greater than the stretch imparted by the first of the stretching steps.

NEW BULKY YARN PATENTED—A new bulky yarn invented by T. B. Davenport and Alfred G. New of Greenville, South Carolina, has been granted U.S. Patent No. 2,999,351, which the inventors have assigned to Deering Milliken Research Corporation, Pendleton, S. C.

The patent covers a multifilament nylon yarn containing at least about 10 filaments per end and having imparted thereto a set tendency to twist to the extent of at least about 40 turns per inch. Spaced lengths of the yarn do not have more than about 10 turns of twist per inch. The yarn has segments, disposed between the spaced lengths, which are more highly twisted in conformity with the said tendency so that there is at least about 40 turns of twist per inch differential between the spaced lengths and the highly twisted segments.

PATENT GRANTED FOR NEW CRIMPING APPARATUS—New crimping apparatus invented by Ewart H. Shattuck and Andrew A. Benedek of Wilmington, Del., has been granted U.S. Patent No. 3,000,060, and assigned by the inventors to Joseph Bancroft & Sons, Company, Wilmington.

The patent covers a stuffer crimper comprising a member forming an elongated crimping chamber, feed rolls disposed to feed yarn into one end of the chamber against the pressure of a mass of crimped yarn held compacted in the chamber whereby the yarn is folded over and crimped as it enters the chamber. A guide mechanism for guiding the yarn to the feed rolls includes means to reciprocate the yarn axially of the feed rolls for causing the yarn to be distributed uniformly within the crimping chamber.

BULKED CONTINUOUS MULTI-FILAMENT YARN PATENTED—A bulky continuous multi-filament yarn in-

(Continued on Page 83)

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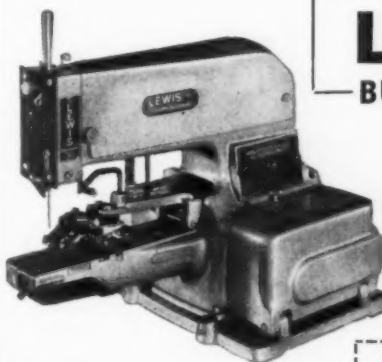
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vented by Thomas S. Mayner, Russell Township, Ohio, has been granted U.S. Patent No. 3,001,358, which the inventor has assigned to Midland-Ross Corporation, Cleveland, O.

The new yarn comprises an inner core of continuous filaments and an outer surface of loops and ends entwined in position and formed by sweeping back severed peripheral filaments along the length of the yarn.

NEW PROCESS PATENTED FOR HOT STRETCHING POLYACRYLONITRILE YARNS—A new process for hot stretching of polyacrylonitrile yarns in which the draw point is located on the feed roller, invented by Walter Maier and Kurt Bernklau of Dormagen, Germany, has been granted U.S. Patent No. 3,001,236, which the inventors have assigned to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany.

The new process is designed for hot stretching of yarns consisting of a copolymer of 95 per cent of acrylonitrile, five per cent of vinylacetate and an average solvent content of about six per cent dimethylformamide. The yarns are heated in contact with a positively driven supply roller which has a surface temperature of about 150 degrees Centigrade and a peripheral speed of about 100 feet per minute. The yarns are then led over a slightly curved frame having a surface temperature of about 165 degrees C. and then to a stretching roller which is positively driven at a peripheral speed about six times as high as the speed of the supply roller, whereby the point of stretch is localized on the surface of the supply roller and permanently remains thereon.

BRITISH INVENTORS PATENT PROCESS FOR MAKING ELASTIC TEXTILE MATERIALS—A process for making elastic textile materials, invented by Charles Schwabe Parker, Bradshaw, near Bolton, and Alexander Melville, Southport, England, has been granted U.S. Patent No. 3,001,262, which the inventors have assigned one-half each to Bleachers' Association Limited, Lancashire, and Bradford

Dyers' Association Limited, Yorkshire, England.

The patent covers a three-step process for imparting elastic characteristics to a textile material containing a plurality of synthetic thermoplastic fibers to permit the material to be stretched and to also recover completely. The steps consist of (1) mechanically shrinking the material to a length shorter than the normal length of the material; (2) subjecting the material to heat sufficient to set it in its shrunken condition but insufficient to render the thermoplastic fibers tacky, and (3) allowing the material to cool, the fibers being crimped and retaining their original freedom of movement relative to each other.

FABRIC TENSIONING DEVICE FOR KNITTING MACHINES PATENTED—A fabric tensioning device for use with knitting machines, invented by Alfred Woodward Kent and Percival Arthur Bentley of Leicester, England, has been granted U.S. Patent No. 3,003,342, which the inventors have assigned to The Bentley Engineering Company Limited, Leicester.

The new device is for use with a knitting machine having a needle cylinder with needles arranged to form a needle circle and comprising a plurality of slender arcuate fabric engaging members having fabric contacting elements disposed in proximity to the needle circle in position to engage a short portion of fabric on its way from the needles to apply withdrawal tension to it. The fabric engaging members are mounted for positioning immediately within the needle circle and spaced apart around it. A tubular cage is mounted within the needle cylinder and retained against rotation relative to the cylinder. The cage has guide slots to receive the fabric engaging members internally and extend in the general direction of the axis of the cage, and cam means between which and the cage. Relative rotation is arranged to occur during operation of the knitting machine, the cam means being disposed to act on the fabric engaging members to effect their oscillatory movements.

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HERE IS THE ISSUE to which the entire knitted outerwear industry eagerly looks forward—for it contains a comprehensive review of all major happenings in the trade (it will be a "history of the knitted outerwear industry during 1961"), as well as an authoritative forecast of prospects for the coming year.

Editorially this special issue will draw upon the best informed sources in the trade to discuss every major subject of interest to our more than 3500 knitted outerwear manufacturer and wholesaler readers.

SUPPLIERS SERVING THE KNITTED OUTERWEAR INDUSTRY . . . This issue is particularly suitable as a medium for a review of your own operations this past year . . . a record of your achievements and progress, and an indication of your plans for the future. Pertinent, too, would be a year-end message expressing thanks and appreciation to your friends and customers in the trade for their patronage.

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Zipper

New Waldes Zipper Is Of DuPont Nylon

A strong and light slide fastener which, unlike conventional zippers, has nylon teeth and tape has been introduced for industrial use by Waldes Kohinoor, Inc., Long Island City, N. Y.

The fastener, the Nylon-Zip, is made of DuPont nylon for industrial, military and consumer products in which adverse environment conditions reduce the effectiveness of metal zippers. The new fastener conforms to government specifications.

Nylon-Zip is said to be corrosion-resistant. The Navy has adopted it for life vests, life rafts and other survival equipment.

Conmar Introduces New Nylon Closure

NEWARK, N. J. — A new closure with a continuous nylon filament was introduced by Conmar Zippers.

Despite its lightness weight, the new Nylaire zipper is said to allow great lateral pressure, owing to the continuous forming of its nylon coils, which remain part of the filament and are not individual as in metal zippers.

The tape and nylon filament are dyed simultaneously. The reverse side is completely covered.

A fully automatic lock requires no pressure for locking. The nylon guide construction enables a sewing machine operator to install the zipper without endangering the coils or the garment.

Initial distribution will be aimed at the 600-million unit

zipper market in the women's ready-to-wear field, in cut lengths to specification for dresses, skirts and slacks.

Kennedy Is Seeking Broad Trade Powers

(Continued from Page 1)
origin of the reciprocal trade policy in 1934.

Up to now, the President has been limited to item-by-item bargaining in tariff reductions. The new authority the President is likely to ask will enable him, if granted, to make broad percentage cuts on all import classifications across the board. It is by such sweeping reductions that the Common Market countries developed the Economic European Community; and now that Britain has applied for admission and other nations in the European Free Trade Association are taking similar steps, the power which the President seeks could be used for possible entry by the United States into similar economic arrangements.

These plans, however, are complicated by a second development of a serious nature: the Department of Commerce has reported that the outflow of gold payments from the United States during the third quarter rose again to the rate of more than \$3 billion a year. This is said to be largely due to the rapid increase in imports resulting from business recovery in the United States in the latter half of the current year.

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1—TAI, 30", 5 cut, 6 feed, 4 col. strip.
1—TAI, 30", 10 cut, 6 feed, 4 col. strip
Extra 16½ cut needle beds for TAI.

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- 1—Scott & Williams MFRC, 30", 14½ cut
- 1—Jacquard AI, 16½ cut, 32", 32 feed
- 1—Jacquard LHB, 4 cut
- 7—Jacquard TA, 5 & 12 cut
- 1—Jacquard LH, 30", 6 cut
- 1—Jacquard LH, 30", 7 cut
- 3—Jacquard LH, 30", 8 cut
- 3—Jacquard TJ, 28", 8 cut
- 2—Jacquard TA-12, 30", 10½ cut
- 1—Jacquard TA-12, 30", 11 cut
- 2—Jacquard TAI, 16 and 16½ cut
- 1—Supreme BRW, 30", 4 cut, 16 feed
- 5—Universal Supramat, 63", 4 cut
- 3—Queens Tandems, 5 cut
- 1—Queens Tandem, 7 cut
- 1—Queens, 12 cut, 60", Model B
- 5—Morat, 16 cut
- 2—Universal 6 spindle backwinder
- 7—Lamb, Dubied, Grosser machines, 5-14 cut
- 5—Brinton revolving take-up, 24", 18 cut, 64 feed

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2—7 cut, LH circular Jacquard machines.
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Fine cut TJI, 14¼ and 14½ cut machines.

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- 3—Phila. Jacq. TJI, 14¼ cut, 30", 12 feed
- 1—Brinton, PR 19, 28", 12 cut, 24 feed, wheels, motor
- 1—Supreme Philip, 17 cut, 30", 32 feed
- 1—Supreme BRW, 4 cut, 30", 16 feed
- 3—Phila. Jacq. LH Machs., 6 & 7 Cut, 30", 6 Feed
- 1—Phila. Jacq. AI, 16½ Cut, 32", 32 feed
- 2—Phila. Jacq. TJ, 16" 7 & 8 Cut, 4 Feed, 4 Col Strip
- 1—Phila. Jacq. TJ, 28", 7 cut, 4 Col. Strip
- 6—Phila. Jacquard TAI Machs., 10, 12, 13, 13½, 16½ Cut, 30", 12 Feed
- 4—Phila. Jacquard TA Machs., 9, 10, 11, 12, 13 Cut, 30", 12 Feed
- 1—Phila. Jacq. LA, 10 cut, 30", 12 feed
- 1—Phila. Jacquard MLW, 28", 11 Cut, 24 Feed, Wheels and Jacquards
- 1—OG, model OTA, 13½ cut, 30", 12 feed
- 1—O.G. Multi-Feed Jersey, 1x1 Rib, 8 Cut, 36 Feed, 32"
- 2—Wildman PB2 Machs., 17", 18", 8 Cut
- 1—Lamb Border Mach., Double Head, 5 Cut
- 1—Dubied DRL, 12 cut, double lock, transfer
- 1—Universal MCI, 10 cut, 62", one year old
- 1—Queens, Model B, 10 cut, 60", high and low jacks
- 1—Queens model BJ, jacquard flat, 10 cut, 60"
- 2—Stafford & Holt machs., 30", 32", 6 & 7 Cut, 6 & 12 Feed
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- 4—Morat, 16 cut
- 1—Stoll, 10 cut Jacquard border machine, Model KAM0J.
- 1—Supreme BRW, 4 cut, 372 N., 9 strippers.
- 1—160-2, Lewis label tacker, with standard motor.
- 2—Jacquard TJI, 30", 12 & 13 1/4 cut, 12 feed, 4 color strippers.
- 1—Jacquard AI, 30", 32 feed, 13 1/2 cut.
- 10—Jacquard body size TA, 10 cut, 4 color strippers, 12" to 18".
- 4—Jacquard LH, 30", 7 & 8 cut, 6 feed with strippers.
- 2—Jacquard card punching machines, 1-44; 1-56 lever.
- 1—Columbia dry cleaning machine, model G.
- 1—Stoll, 10-cut border machine.
- 1—Stein separating machine.
- 8—Jacquard TAI, 30", 6, 12 1/2, 13, 13 1/2, and 14 cut, 12 feed, 12 strippers on each.
- 1—Brinton, 18", 14-cut, 24 feed, 792 needles.
- 2—Universals, 63", 4-cut—over 21,000 (serial no.).
- 1—Wildman PB2, 19", 10 cut, with motor attached.
- 1—Dubied VD, 44", 10-cut, Hi-Low butt needles.
- 1—Kastrinsky calendar, 54".
- 2—Jacquard 1-TA; 1-TAI, 30", 10-cut, 12 feed
- 1—Jacquard LA, 15", 8 cut, 372 needles.
- 1—S & H, 30", PA, 8 feed, 7 cut.
- 1—Con-Sew clipper, practically new, #20, size 00 #50 Model 88.

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On 3 1/2-4 cut "V" Bed machines, manufacturing men's, ladies' and children's sweaters. Can also produce trimming. Knitting Only

BOX 480E

COMMISSION KNITTING WANTED

Full-fashioned men's and ladies' sweaters. 300 dozen per week, all types of yarn.

BOX 480X

CONTRACTORS WANTED

Circular and 7 gauge Links and Links for girls' bulky sweaters.

BOX 480H

CONTRACT WORK WANTED

Fashion trimming on fully automatic 10-12 cut flat machines, with your yarn.

BOX 480F

CONTRACT WORK WANTED

Bulkies on 4 cut Stoll machines. Pique on TAI machines. Quality garments.

BOX 480D

HELP WANTED

MAN WANTED

to operate Rubinsky and Universal Rib machines. Able to make chains and changes.

BOX 486

SALESMAN WANTED

Experienced on cotton knitted fabrics for a well established, good sized mill. All replies strictly confidential.

BOX 480M

SEWING ROOM SUPERVISOR WANTED

Thoroughly experienced in every phase of operations pertaining to manufacturing sweaters or sportswear and capable of training operators, for one of the largest mills in the Philadelphia area. For an expert in this field who is willing to relocate in Philadelphia we offer an excellent position. Please state all your qualifications and background in your first letter.

BOX 480

KNITTER MECHANIC WANTED

Experienced on TJI and TAI machines.
Only top rated mechanic need apply.
Give full particulars.
Best opportunity for right man.

BOX 401

WOMEN'S SWEATER PRODUCTION COORDINATOR

Styling — Production Planning — Yarn Buying
Important national concern with headquarters in New York needs a top sweater man with extensive knowledge of:

1. Sweater styling and execution thereof.
2. Knitting machinery.
3. Factory production, production control, and quality control.
4. Yarn purchasing.
5. Commercial knitters.
6. Men's and boys' sweaters.

(This is desirable but not essential)

Position entails liaison between buying departments and factories, production planning and styling recommendations. In reply give full experience and salary expected. Replies will be kept confidential.

BOX 477

CYANAMID

New and expanding markets for ⁴CRESLAN®, American Cyanamid's acrylic fiber, offer unusual growth and advancement to men who can qualify for the following:

TECHNICAL SERVICE REPRESENTATIVE

(Knit Goods Manufacturing)

Challenging opportunity for a man with at least 5 years of actual machine knitting practice. Must know intricacies of circular and flat knitters and all common knitting principles including Raschel and Tricot.

Will render technical assistance to our customers at their Plants in all aspects of knitting and knit goods finishing.

SENIOR SALES REPRESENTATIVE

(New York District)

You can help us develop our expanding markets if you have 5 to 10 years experience in FIBER sales, yarn sales, or experience selling to the knit goods trade.

Applicants should be familiar with knitting goods manufacture and technology.

Position involves the servicing of customer accounts, coordination of technical service work, participation in merchandising projects, and assisting with market surveys.

We invite you to investigate the potential with us by submitting a detailed resume of your education, experience and salary requirements to:

Peter Fornal

Personnel Relations Manager

AMERICAN CYANAMID COMPANY
111 West 40th St. New York 18, N. Y.

DUBIED KNITTER-MECHANIC WANTED

Good opportunity for experienced man.

YOUTHCRAFT KNITTING COMPANY

119 Ingraham Street, Brooklyn 37, N. Y. GL 6-5558

MECHANIC WANTED

familiar with Wildman Spring Needle machines.

BOX 440F

PRODUCTION MAN WANTED

for medium size sweater mill. Must have cutting experience, plus some jobber contact on popular priced goods. Good opportunity.

BOX 489

YARN MAN WANTED

Thoroughly familiar with all types of yarns, production, purchasing, inventory controls and office procedures. Excellent opportunity. New York City mill. Give full particulars in reply.

BOX 488

**KNITTING ROOM FOREMAN
WANTED — PHILADELPHIA**

To manage the knitting department of one of the industries largest sweater mills.

We will only consider a man who is a thorough professional in this specific area —

Knitting room MANAGEMENT

Only a man with a proven background will qualify to fill this position —

one of the most important in the industry.

BOX 480A

POSITIONS WANTED

PRODUCTION MAN-STYLIST AVAILABLE

with thorough knowledge of cost, yarn, quality control, styling and pattern making.

BOX 480C

**PRODUCTION MAN AVAILABLE
ON LADIES' AND MEN'S SWEATERS**

Thorough knowledge of cost, yarn, quality control and styling

BOX 484

**PRODUCTION AND
QUALITY FOREMAN AVAILABLE**

Full-fashioned or cut and sewn ladies' sweaters. Can take complete charge of looping, sewing and all finishing departments. Will relocate with reliable firm.

BOX 480N

BUSINESS OPPORTUNITIES

PARTNERSHIP WANTED

Experienced man seeks partnership in knitting mill. Complete knowledge of finishing department. Presently associated with mill. Will supply the best references.

BOX 480G

MORAT CLOTH

Production and/or machines available. Interesting proposition for responsible firm or party.

BOX 480L

REAL ESTATE

**LOFT FOR RENT
Immediate occupancy**

Ideal for knitting mill. Located in Long Island City. Ground floor complete with heavy power, approximately 30,000 sq. feet of space (450' long x 70' wide) 18' ceiling. Sprinkler system throughout.

**MAC M. ROTHKOPF
HY 7-1486**

BUILDING FOR LEASE OR SALE

in upper Manhattan. 10,000 sq. ft. on main floor, 7500 sq. ft. in basement. Sprinkler system. All electrical and air equipment for a knitting mill and offices.

BOX 450Y

SERVICES, SUPPLIES FOR SALE

SAM STARK *specializing in*
CREATIVE JACQUARD DESIGNS

60 Clarkson Ave., Brooklyn 26, N. Y. IN 9-8554 Aft. 3 P.M.

LAWRENCE LEVY
 PRESIDENT

KNITTING CONSULTANTS

- PRACTICAL ENGINEERS TO THE KNITTING & CUTTING UP TRADES
- PATTERN WHEEL DESIGNS & MECHANICAL REPAIRS
- MANAGEMENT CONSULTANTS

300 W. 24TH ST.
 CHARLOTTE, N. C.

PHONE: 376-4406

CLOSE-OUTS WANTED

CLOSE-OUTS WANTED

CASH PAID for surplus stocks of Sweaters and Bathing Suits

BERNETTE TEXTILE COMPANY

101 W. 31 St., New York City

BRyant 9-5526-7

CLOSEOUTS WANTED

Ladies fur blends and bulkies.

Cash paid for surplus stock.

BOX 483

\$\$ CASH PAID FOR CLOSEOUTS \$\$
SWEATERS — POLO SHIRTS — SPORTSWEAR

Men's, Boys'
 Girls', Ladies'
 CALL US FIRST!

ARNA KNITWEAR, INC.

1265 B'way, N. Y. 1, N. Y. OR 9-1677

REPRESENTATIVES, LINES WANTED

LADIES BULKY LINE WANTED

In regular and large sizes - For Fall 1962 selling. Hard-working sales organization - Member of all wholesale shows.

BOX 480J

HELP WANTED

**FOREMAN WANTED
 FOR YARN WINDING PLANT**

Thorough knowledge of Foster machines. Metropolitan area. State salary and experience.

BOX 482

**FOR THE BEST RESULTS
 USE A MARKET PLACE AD!**

TRADE WANTS

RATES: one insertion—40 cents per word. Words set completely in capitals—45 cents per word. Box numbers count as two words. Minimum cost of advertisement—\$6.00. Minimum cost of Positions Wanted advertisements—\$5.00. Trade Wants for Monday's paper must be in by preceding Wednesday, 2 P.M. Please enclose payment with your order.

SHRUGS — Also other contract work wanted on 4 cut machines. Reasonable price. Box 480W

For Sale—2 Jacquard TJ's, 28", 3 color stripers. Box 480R

Closeout — 18/2's tweed cotton, about 7,000 lbs., assorted colors, first quality, reasonable price. UL 7-8351

Wanted—1 Jacquard LH, 8 cut, 30" machine. Box 480P

Seek additional work—Cable stitch on 7 cut Links and Links flat machines and 7 cut circular machines. Box 480T

Knitting Mill for Sale—17 cut, 30" Philip machine and complete finishing plant. Box 420R

IMPORTANT NOTICE:

The Deadline

**For "Market Place" Ads to Appear
 In Our November 27th Issue
 Will Be Advanced to Tuesday
 November 21st at 2 P.M.**

KNITTED OUTERWEAR TIMES
 386 Park Avenue South, New York 16, N. Y.

Gentlemen:
 Insert the ad written below in issues.
 (Check one)

☐ **TRADE WANTS**

Rates per insertion: 40¢ per word; 45¢ if set in capitals. Box number counts as 2 words. Minimum cost per adv. — \$6.00. Minimum cost per positions wanted adv. — \$5.00.

DISPLAY AD

- ☐ 2" — \$12.00
☐ 4" — \$24.00
☐ 10" — \$60.00

**Please Enclose Payment With Order.
 ADVERTISEMENT**

☐ Check here if you want a confidential box number (replies sent to you as we receive them).

Name

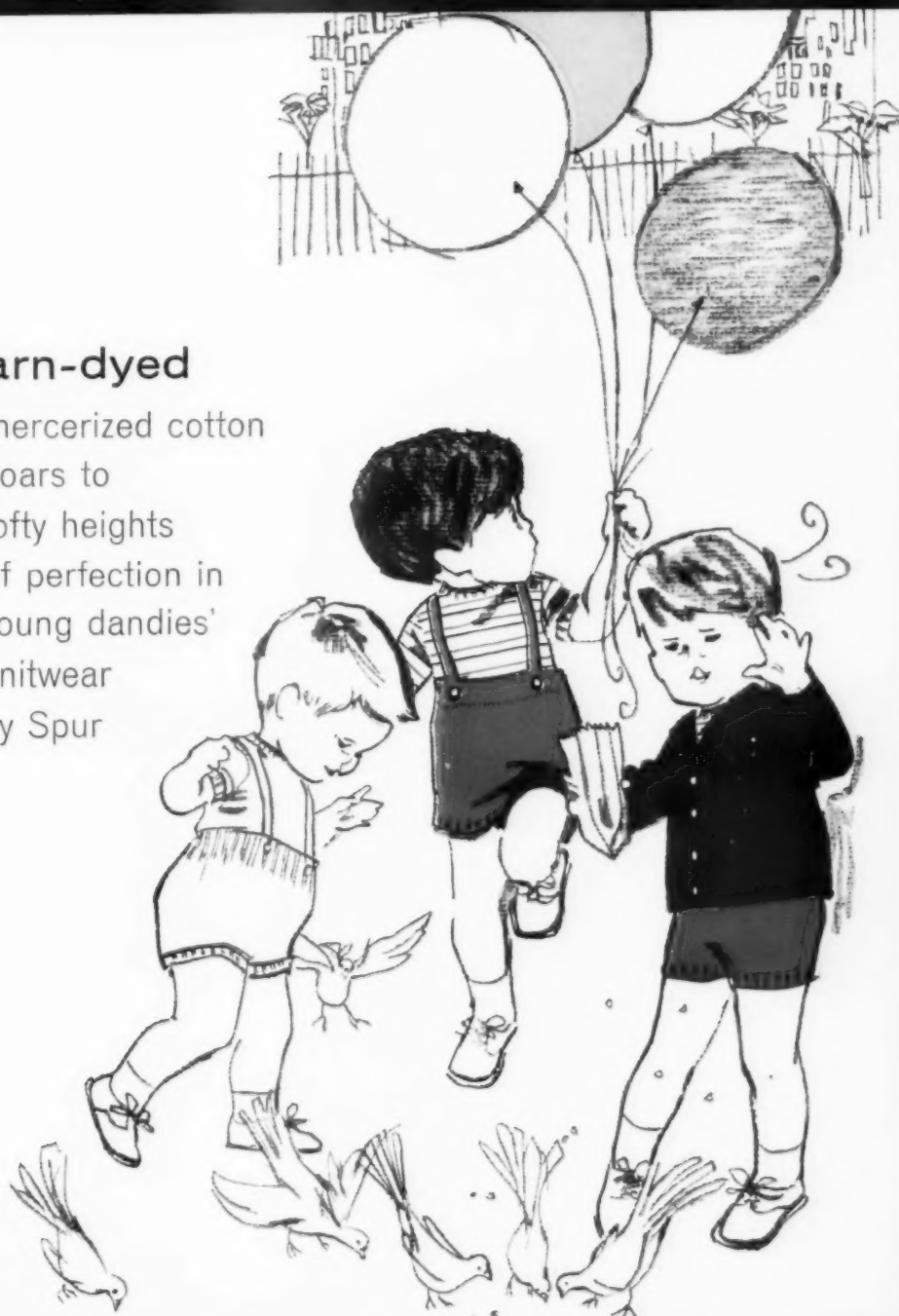
Address

(Use separate sheet if necessary. Attach this order blank.)

dixie®
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arn-dyed

mercerized cotton
soars to
lofty heights
of perfection in
young dandies'
knitwear
by Spur



DIXIE MERCERIZING COMPANY

CHATTANOOGA • NEW YORK • MEBANE • CHICAGO
PROVIDENCE • READING • PHILADELPHIA

DURENE® MERCERIZED • MERCERIZED SINGLES • DYED AND BLEACHED • COMBED PEELER SINGLE AND PLY
• TUFTING YARNS • TURBO AND STAPLE CHEMICAL FIBERS •

BANNER *is the leader in* **Package Dyeing** **ORLON[®]** **SAYELLE[®]**

Naturally, BANNER — famed for its research and development efforts — pioneered in the successful processing of Orlon Sayelle for knitted outerwear — and is now the acknowledged leader.

You are assured of a superior product — from the standpoint of loft, resiliency and uniformity of color.

progress is our greatest asset!

GREAT NAMES IN KNITTED OUTERWEAR PROCESSING

BANNER YARN DYEING CORPORATION
BANNERIZED CORP. OF AMERICA
BANNERLON PROCESSING CORPORATION
BANNER PIECE DYEING CO. INC.

488 Morgan Ave., Brooklyn 22, N. Y. • EVergreen 8-0100

ABSTRACTED

1 October Times